

gtagacctct tctcttaaga tgcattaag gaaggcattg ttcacatcca actgctgtat 120
 tggcagtgta ttagtgacag caagagtaag aagaagtttc agtgataggg ttgataactg 180
 gtgagaatgt ttctgtataa tcagtaccaa actgctgatg aaagcctttt gccactagtc 240
 tagcttggta cttatttaca gtaccatcat aattttcttt gacccgaaac aaccacttgc 300
 aaccaataty attactatca aggtcccatg tattgttttt aatcaaggca tcataactag 360
 ttgcatagc agccaacct gtatgalegc taaggcttgc ttatagata tgggttccaa 420
 atgagtcaaa a 431

<210> 16634
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 16634
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 caattgtcac atcttttcat ttggttcttg aatggctatc aaaggcctat atatatgtga 120
 cttgagacac gaatatgcta agagttttta agaacaaaaa ggtcttatcc tcttaaaaag 180
 caaaatcgta ttatctcttt acaaattcct tggcgcaaaa cacttgtgat tcaataagga 240
 attatttgag tgctcaaatt gtccaatcta tctctttcaa gagagatttc ttcttctttt 300
 cttcttttatt ctgaaaaggg attaagagac cgagggtctc ttgttgtgaa agaattctaa 360
 acacaaagga aggattgtcc ttgtgtgtat aaaacttgta aaaggaatat ac 412

<210> 16635
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 16635
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 tcttctggat taggacatcc ttgtcatgac aaatgactac cgtacccctt gtattctggca 180
 ccacctggac tacgattaca taaccactgt gggaaatggg gtacatacgc ccaacactaa 240
 aaagctgaag cactgtttc ctacactctt acttcattga tggaggaagc acttgtatga 300

ggctggctga ctggtctat

<210> 16636
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 16636
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 cacttagcaa tttgttgaat aaagatgttg ctattttgtt taatgaagag tgtatggatg 120
 catttaatga ttgaaaacc agattagtgt ctgctccagt aattatagca ccaaattggg 180
 ggcaagaatt tgagctgatg tgtgatgcaa gtgattatgc cataggtgca gtgcttggac 240
 aaaggaaggg aaaaaatttt aatgctatat actacgcaa caaggttcta aatgatgcac 300
 aagtgaacta ttctaccaca gaaaaagaaa tgctggtaat tgtttatgca cttgaaaagt 360
 tcagatctta ttgggtaggc tcaagagtta tcctctacac tgatcacgca gctattaaat 420
 422

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<210> 16637
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 16637
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 actgaattta ttcatagaga gatcgagata tcttaatgat gaaagttttc caaatgatct 180
 aggaagagca ccaccaattg agttgttgga aaaaagtaac gtgtcaatat ttttaaattgc 240
 cccaatatga tctgtcagat tgctgaaag tctgtgaactc tgaactgcaa gtcttgtgag 300
 tccatgggaa atacaaggag cactaatctc taaaagtcca ttaacctgtt ggttgagttt 360
 gagatatgat aaatctatca cccttaagtt gcagagatta cccaaagaag ttggaatgtt 420
 441
 tcttcaagt tgattatgtg a

<210> 16638
 <211> 393
 <212> DNA

<213> Glycine max

<400> 16638

agcttcttgc agttggacaa cagtgggttag cctctcgaaa tctccaccta agtagtggtt 60
gattctaatg caattacag tcatgccc ttgggggtt gggctctcca ataccattgc 120
tccatgtggc ataactttt tcatgaagaa tggcacaacc acttgcaatt cagcttactt 180
ggaaacaatg ttaactaga attaaataac aatacttgtt ggcacaagctg aatattctt 240
tttgacaact ttttgcatg atagattggt actctttgct tataaagatt ggaattctca 300
taagcttgaa ccttcagttc ctccaattca tggagttgaa gctctctgtg ttcaccattt 360
gcattcgagt cgaagttcac aaattataat gcc 393

<210> 16639

<211> 379

<212> DNA

<213> Glycine max

<400> 16639

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atgtaacaga ttgtaatcaa tgtatttaaa atgcaagtta agttcttgcc tttatagact 120
cttcaagtct ggtcaagaaa accattacaa gagttataac ctttagaaaa cttttggaag 180
agttacatct tttgattttt attcaaaaact tatcattggt aatcgattac caaatcattg 240
taatcgatta tacaaagcat ttttgtaaaa cgatgtgact cttcacattt gaatttgaat 300
ttcaacgttc aaacacactg gtaatcgatt accaatatat tgcaatcgat tacaccatta 360
tgaaattgaa tggaacatt 379

<210> 16640

<211> 251

<212> DNA

<213> Glycine max

<400> 16640

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ataatgactta atgatcaact caggattcaa cagatgtgac atggaccate tctgcgcggc 120
taagatatat actaataget atgccatcct tctcgagtat ggggatgaca tgaatattac 180

aggatctcgt atggcacaaa tgcacagggt gaagcaccaa ttggcagaaa actttgatat 240
gatagatctt g 251

<210> 16641
<211> 394
<212> DNA
<213> Glycine max

<400> 16641
tcaagctttt agccaaactca aacgataata actttttact cggatgtctg attgagtccc 60
gtaacatata gagaagctcg aaattgaatg ttgaacctct gagccaattc aaacgacaat 120
aacttttttc acggatgtct gattgagtcg cgtaacatat tgagacgctc gaaattgaat 180
gttgaacctc tgagcaaat caaacgacaa taacttttta ctggatgtc tgattgagtc 240
cbgtaacata tcgagacgct cgaaattgaa tgttgaagct ctgagccaat acaaacgacc 300
ataacttttt actcggatgt ctgattgagt ccgtaacat atcgagacgc tcgaaattga 360
atgttgaagc tctgagccaa tacaacgac cata 394

<210> 16642
<211> 395
<212> DNA
<213> Glycine max

<400> 16642
agcttgaagg tatactagat gccttggtta acttggtaac ccagctggcc ttgaataaaa 60
aatttgtacc tctcgcaaga gtctgtggtt tatgtctctc tgctgaccac catacagacc 120
tttgcccttc tatgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaaca 180
tttacaatag acttctctat tctcaatagc aaaatcaacc acaacaaaac aattatggcc 240
tctccagcaa cagatacaat ccggtatgga ggaatcacc taatctcata tggcttagcc 300
ctcaacaaca acaacaaca cctgtctctt ccttccaaaa tgttggttagc ccaagcagac 360
catacatctc tccaccaatc caacaacagc aacat 395

<210> 16643
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16643

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tgtaatcgat taaccagagca gattntcaga aaatattctc ttcagtcaca tctttttatg    60
tggtttcttga atggctatca aaggcctaca tatatgtgac ttgagacacg aatttgctaa   120
gagtttttca gaacaaaaag gtcttatcct ctatataaagc aaaatcgttt tctcctctta   180
caaatctctt ggttaaaataa ctgttgatc ccaaaaggaat taattgagtg ctcaaaatgt   240
tcaatctatc tctttcaaga gagatttctt cttttctctt tcttcattct gaaaaggyat   300
taagagaccg agggctctctt gttgtgaaag aattctaaac acaaaggaag ggttgctcct   360
gtgtgttttag aacttgtaaa aggaatttac aagatagtgg aactctcaag cgggttgc    418
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<210> 16644
<211> 402
<212> DNA
<213> Glycine max

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<400>        16644
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agaaacaaaa ttgaagaact gaagtagctc gctcagcacg tcttaggcgc ttagcgcaac   120
acagtggctt agcgggcaac agaagcttag cgtcaagaag tatggagaag tctggaacat   180
gaaggttgc ttaacctgca gctcgtttct atgtttggga tgatccccac ttattcaaga   240
ttggagcgga taatctattg agaagatgtg ttaccatgga agaagctaga agtatattat   300
ggcattgtca caattctcct tatggcagat actacagtgg g gataggaca actgctaagg   360
tgctacaagc tgaatttttt ttgccttcta tcttcaagga tg                        402
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<210> 16645
<211> 420
<212> DNA
<213> Glycine max

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<400>        16645
aagctccttc aactgcacaa ggctatcaat ataagaagag tatgcttytg gaaccttcac    60
ccgaggaaga caactgacaaa aacttatctt tctcttctct gacaaaatat ggaacgctat   120
gtgcaagtaa ataactcttc catcaaacct tggatgcaac tgcgacgta tgcctatctc   180
agctatatct tgatgggtat tgaagccata ctctgtctag cattgaatgt taaggaaagt   240
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tccaatcaca ctgtcacaaa cattactgtg cacatgcata acatcaatat aatgttgaac 300
 gtaaatatca caccataaag gaagatcaaa gataatggac ctctttcttac atatgcagct 360
 attactttca tccctctttt gagtctagcc aaatacaata atcacgtgtg gaaccogctc 420

<210> 16646
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 16646
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 gactctgcaa ttggctcatt aaccatatca ccaccaccag catactctct ttctcccaac 120
 ctatctctct ttctctcttg cactatccct aatttacacc accacttacc ccacttgcca 180
 accctgttca atcccttttg gccatcccca tatgcagcat cacaagcctc atccttagaa 240
 gcagactcca ttacactatc agatagaaca ctattggacy ttgcaaatt cgcctccctc 300
 aaatcattct cagttatcaa tacctttgcc ccatagaaca actcactgga ggcaggggaa 360
 acccttagcat tagatatcac tctcaattca tcaacatccc ccatt 405

<210> 16647
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 16647
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 tcttgatga atcttcgata gaaactgtta tgtccaagaa aacttcttat acccttggca 120
 tttactgggt gtgtgtaact ctcaatgaca tcaatttttg ctttttccac cttaatgcct 180
 cagggtgaaa ttctgtggcc caacactatc ccttctcaaa ccctgaagtg acacttctcc 240
 caattcagca ccagatttat ctcaacagat ctccatagca ccggctctag attcatcaag 300
 caacatcat aggaaggccc acaaactgag aagtcacca tgaagaette tatgacttc 360
 tctaacatgt cagcaaaagt ggctagcttg cacttttggc 400

<210> 16648
 <211> 396

<212> DNA
 <213> Glycine max

<400> 16648

agctttatct tgggtcatta cctgtcatag gcttctttta aaggctcggc tgggcttaca 60
 ttaggtatct tgggtcatta tgggtcatta tgggtcatta tgggtcatta tgggtcatta 120
 ttaggtatct tgggtcatta tgggtcatta tgggtcatta tgggtcatta tgggtcatta 180
 gtaacaaatcc aaaaataatt gataaacaac atttatattga attcaagtta tttaaacaca 240
 aagtatatca aaggaaaatg aaaaaaaaaat gcataatatt aaaaaatata tggattagag 300
 atgatttata caaatatagc caaataaaaa tatttaaatt atttgaaaat gtctttacaa 360
 aacattattg ttttgaaag tattaatctc gttgca 396

<210> 16649
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 16649

agctttatct caactactat tggggttatg tacgcaaaac gatctggctg caatcctcta 60
 ttcagcatct catcaaaca ttccttagcc attggcaagt tccccaaatt gcaaaatcct 120
 ctaacaagaa ttgtaaaagt aaatacatca ggatcaggcc catgtttgat catttcatct 180
 tttagccgca tggcaacatc caagtcctcc attctgcaaa gaccatcgat aagcgtatta 240
 taggtcacia caatgggaac aagacccttg aatcttaact cagcaaataa gagaaaagcc 300
 tccccatgt ttcctaact ggtgtaacca taaatcagag tggtatacga aaccaaatcc 360
 ggcatcagat tctgggtcac cataacatcc agca 394

<210> 16650
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16650

tctgcattgt agctttatc caatacaaac gaccataact tttactcgg atgtttgatt 60
 gaggtcggta atatatcgag acgtcctaaa ttgaatgttg aagctctcag ccaatataaa 120

cgacaatgac cttttactcg gatgtttgat tgagtcocgt aacatatoga gacaactcgaa 180
 attgaatggt gaacctctgt gcatattcaa acgacaataa atttttactc agatgtctga 240
 ttgagtcocg taacttatcg agacgtctga aattgaacgt tgaagctctg agccaataca 300
 aacaaacata aattttactc ttgagtcctg attgaggctc gaaatatc agagctctcg 360
 aaattgaatg ttgaacctc 379

<210> 16651
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16651

tcaaatcca attgtgagcg tctcgatata ttacgggact caatcagaca tcagagaaaa 60
 aagttattgt cgtttgaatt ggtcagagc ttcaaatcc aatttcagag atctcgatat 120
 gttacgggac tcaatcagac atccagagaa aaagttattg tctttgaat tagctcagaa 180
 gttcaacatt caatttcagag cgtctcgata tgttacggga ctcaatcata catccagata 240
 aaaagttatt gtcgtttgaa ttgctaaga ggttcaacat tcaatttcga gcgtctcgat 300
 atgttacggg gctcaatcag acatccagat aaaaatttat tgcgtttga atttgcctan 360
 agattcaaca tcaatttcg agcgtctcga tatgttacgg gactcaatca 410

<210> 16652
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16652

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 ccattccgac gctggaggcg tccgtctcga ccgtgaatgg gagctgaaaa nttagtaagg 120
 tgagtaccgg aactgaagac agagctgctt taaggtgttc aaaagctgat tctgcttggg 180
 gtgttcaact aacaggtctt ttgtgttgga gctttaccaa gggagagaca atgggtggat 240
 atccctttat gaaacgcga tagaatccgg caagtcctcag gatcccaac acaaccttg 300
 aagattgagc tatccccat tgaagcatgg cctctacatt caaggtacc ggttctactc 360

cctttcttoga gaccatatgg cctaaatatt caacctgcaa ctgcgcgaat aagcattttg 420
ataat 425

<210> 16653
<211> 344
<212> DNA
<213> Glycine max

<214> unsure at all 4 locations
<400> 16653

agctttcaga aaattcaaac gacaataact tttttcttca gatgtctgat tgagaccogt 40
attatatoga gaggatogaa attgaattct gaagctctga gctaattcaa acgacaataa 100
taatttgctc ggatgtctga ttgagtcctg taatacatcg agacgctoga aattgaatgc 180
tgaagctctc agctaattca aacgacaata actttttact cggatgtctg attgagtcct 240
gtaaaatata gagaogctca aaattgaatg ttgaagctct cagcaaatto aaacgacaat 300
aaactttnttc ctacagatgtc tgattgagac tctgaatata tcgagaogat cgaattgaa 360
ttctgaagct ctgagctaatt tcaaacgaca ataa 394

<210> 16654
<211> 425
<212> DNA
<213> Glycine max

<400> 16654

tcagaattca atttcgagcg tctcaataga ttacgggact ctttcagttc tccgagcaaa 40
acgttattgt cgtttggatt agttcaaagc ttcagaattc aatttcgatt gtctcgatat 120
attaacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 180
gttcaacatt caattttgag cgtctcgatg tattacggga ctttaatcaga catccgagtt 240
aaaagctatt ggtgtttgaa ttgcccgaga gtttcaacat tcaatttcga gcgtctcgat 300
attataccgg actcaatcag acatccgagt aaaaagatat tctcgtttga atatgctgag 360
agcttcaaca tcaatttcg agcgtctcga tgtattacag gactcaatca gacatccgag 420
caaat 425

<210> 16655
<211> 423

<212> DNA
 <213> Glycine max

<400> 16655

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 tttctataac ttgcacaact agaaactcgt cattagtcga gatgttctag ttgagagta 120
 tttctcttgg atgtgggag aggaanaggt gtagaagaa gtctctta acatgtctcact 180
 acctcaagaa gaagctgagg aagaaaaacc aggtgaacca ccttcgcctc caccacaaca 240
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttgggtgga 300
 tatatatgaa acctgcaact tggccatact caaacctgga agctttgaag aagcgtcaaa 360
 gtaggaagta tgggttaagg caatggaaga agagatatag atgatacaga aaaacaacac 420
 atg 423

<210> 16656
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16656

agctttatta gtcttctctt tgggcgcacc agcatatcgt atgaagggaa gggcaaacaa 60
 gcaaaagtcg tacttcatgc atatatttat ctccatccat attcaacaaa tcatggcaca 120
 tagcatcata ggtccattca tgaatgacag gtgcaatctg tgggtgcagat tcaatacagt 180
 catcaaaaatt gagagctata aaaggagaca ttcatatcca tagtgaagag acatttttaa 240
 cctgatctat ggatctgtca acaatgagca tatcacaagt ttcattatgt ggaaaaccgg 300
 gaatggtaga tttatattta gaaaccatgt cccaaacagc attagcaagc ttggtaggaa 360
 ctaattcacc aaccgctgct gctgtagact 390

<210> 16657
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 16657

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 ctctatttat gaatccattc agaaaggaac tattgacatc catctaatag agcttgaggt 120

ctttatgtgt tgcataggct aaaagtatta tgatggettc aagtcttgc attggtgcaa 180
 aggtttcttt atagtcaatt ccttctgtt gactataccc ttgagtaact agtctagcct 240
 tgttttttac taattctctt tcttcattaa gcttggtttg gaacacccat ttggttcbaa 300
 ttgttaacg attcttagga gggaaacaag attccaaac ttgtcttag tgaattggt 360
 tattctctct tccatagaag tcacccaaga atattctac aat 400

<110> 16658
 <111> 404
 <112> DNA
 <113> Glycine max

<400> 16658
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 taaaaagtta ttgtcgtttg aatttgcctc gagcatcaac attcaatttc gagcgtctcg 120
 atatattacg ggaactcaat aaacatccga gtaaaaagtt attgtcgttt gaatttgcct 180
 agaggggtcaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct gagagcttca acattcaatt tcgagcgtct 300
 cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
 tgagagcttc aacattcaat ttcgagcgtc tcgatatatg acgg 404

<210> 16659
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16659

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 atcgagacgc tcgaaattga atgttgatgc tctgagcaaa ttcaaacgac aataactttt 120
 tacttggatg tctgattgag tctgtcata tatctagatg ctcgaaattg aatgttgatc 180
 atctaagtaa attcaaacga caatatcttt ttaactggat gtctgattga gtcccgtcat 240
 atctcgacac gctcgaaatt gaattgttga tctctgagcc aattcaaacg acaataactt 300
 ttaactcgga tgtctgattg agtcccgcca catatctaga cgtctgaaat tgaatttga 360

tgctctgagc aaattttaaac gacaatatct ttttactcag atgtctgatt gagtcccgta 420
a 421

<210> 16660
<211> 367
<212> DNA
<213> Glycine max

16661
agcttccaaac tctgaaggtgg aggcacacatg aacgaaaatt caattccatgg ggctccgaaa 60
aagggttgaga atggagaatt gcacaaagca atcactacgc atagctccaa actcgaaggt 120
ggaggacaca tgaacgaaaa cgcaattcat gggctccgaa aaaggggtga gaatggagaa 180
ttgcactaag caatcactac gcctggctcc acactogaag gtggaggaca catgaaagaa 240
aaagcaattc atggggctcc gaaaaaggtt gagaatggag aattgcacta agaaatcact 300
aagcatagct tcaaaactcga aggtggagga cacatgaacg acaattcatt catggggctc 360
cgaaaaa 367

<210> 16661
<211> 403
<212> DNA
<213> Glycine max

<400> 16661
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taacatttac atttatataa taaaataatc tggtaggctt taaaatattt ttggaatgac 120
ttaaggggta acatttttaa ctaattatac ttttataaaa tcattaaact aattttatttc 180
ctaaaaaaag tgtgggtatga ctgactgga cgtaatctgt gtataaacta ttatttacat 240
tataataaaa aaattatcct ttatatgatt ttgggtggtaa gtaattaaat tacttatcat 300
atattatttg gaatgagatt aaagtataaa aaatgggtaca tgcatatatt atttatttaa 360
taattatata tectattaga atttcattc cttttctata tct 403

<210> 16662
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16662

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 aatgatgcaa agcagtcaga gatgaagtat acaagctcct caaagtcac ttcacagag 120
 atttagctt ttcacagag ctgcaaat tctcagctt caaaagccc aatgycaaat 180
 tgggaatgta caacgactac atcgat tga atggggtgg tcccaaggat gcatatctc 240
 tccccaatat caacaagcta gtcaatggag tggttccaag ttctaagctt cctagagcc 300
 tctatggat acaactagat ccggatgcat gctcaagaag aggagaaaat gacattcctc 360
 attgaagatg caaactnttg ctacaaggcc atgccttttg ccttaaaatg gaggcctac 420
 atactagaga tgggtgggta gatctt 446

<110> 16663
 <111> 346
 <112> DNA
 <113> Glycine max

<400> 16663
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 aatcaacctc acctcagatg gtccaacctt caacaaccac aacagcagcc tgctttcttc 120
 tcccaaaatg ttgttggccc aagcagacca tacattcctc caccaatcca acaacaacaa 180
 caaccccaga aacaaccaac agttgagggc cctccacaac cttccctcga agaacttggtg 240
 augcaaatga ctatgcagaa catgcagttt cagcaagaga ccagagcctc cattcagagc 300
 ttaaccaatc agatgggaca aatggctacc caattgaatc aacaaa 346

<110> 16664
 <111> 446
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 16664

agcttatgct gtaagaagta agatgtgtgc ttgagatgtg tttaaacctt atcacaacag 60
 gaaagcttga tgaagtggg atgatatacc agttcgggta tggtagatgg aagcttagta 120
 gaggaagcat gctcattgct caaggtaaca aggaaggctc ctgtacatc atgcaggan 180

agatatgcaa atggaagatg aatgtttgctc aagatacaac caaagaatta tgacacaaga 240
gattngtca catgagtgag aaaggtttgg agtttctaac anaggatcac tgtccaaaca 300
taaagggcca ggaacttgaa tcttgogaag actgtcttgc angtaaaaag tgc aaagtgt 360
tctccaaag atggatgag gctagaagga gaaaaaaac ctgactcttg tccattcaaa 420
tactctcaaa aactctcaaa actctc 480

<210> 16665
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16665

atcttttata atatgaaatt gtctgtaagt catttgagaa ttnttggttg tacaacatat 60
gcattagttg atctatggac taagttggat gataaatcta tcaaatgtgt atttattggc 120
tatgtacttc agtcaaaaggc atacagactg tataacccac taactygcaa gataattgtc 180
agtacaaatg ttgtatttga tgaagatgca ggctgggttt gggaggaatg tgaaatcagt 240
caaagtgttc agcagaaatc agtcaatttt gatggtttag aggaggtctc anatgtgcca 300
cataatgata acaactcaag cctccttca atgccatcaa gccagggatc attaactcct 360
tcaagccagg tatcatctag ctcatcaagt gantttgctc caaggagata caaatctttg 420
gcagacttgt a 480

<210> 16665
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16665

tgtttatttt gatgatgcca aagactcaag tcaagaatca agattgaagc aaatttcaag 60
aatcaaaaggy tcaattcaatc aagaatcaag attcaagaga agactcaaga tatgtaagaa 120
cctcaagaaa aacatcaaga taagtataaa aagaattttt caaagaaaaag attgaatgac 180
acaatttgac caaaataatt ttcaaaagaa aaatctttta ccagagtttt tactctctgg 240
taattgatta ccatacagta atcgattacc agaagtcaca aacaatttta taactgtttt 300

acaaagtagt aatcgattac catgggcatg taaccgatta ccaatgttnt tgaacgttga 360
 atttcnato tcaagagtca taacttgtga canaatattt tcaaaaatagt gtaatcgact 420
 a 481

<210> 16667
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16667

agtctgttgt attgnttct tctcttctt ctctggcagt gcaaattgat tggattatgg 60
 aactgttggg gagcaatttg gaagccaagt ccaaaattta caaggacctt gctttgagtt 120
 atatttctt gatgaacaat gggaggtaca ttgttcagaa gacaaagata gtgaattggg 180
 aacctcttct ggagaagaat ggatcagaan acacgtcgca aagtttagga attccatgtg 240
 caatatcana gaagctctgt gaataagcta ttannggatt ctgaagtggg tagtaatggg 300
 tcaatgcccc atattaactt tgcaaagtca atgaaagaga aaactcagtc gttaacaca 359

<210> 16668
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16668

tctcttttct gttggctgan nattatcatg cagacttttc tgatgatgac cgatgaacaa 60
 ttatggatca acttgaaact tatgtgcttc gagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaaagtgtg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180
 catttggtta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcacccgttg 240
 aaagagcctt ttcagcaatg aagatgatca agtctagatt ggcgaataag atcaacgat 299

<210> 16669
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16669

gtgcctcttc atgtctggaa tatgaatgta gcatatagat tcaaagactc ttagatgctt 60
 tgcctgatggc ttcttcccggt tccaagcttc aattggaatc ttgtctotta cagaacttaat 120
 tggacatattg ttgagtatgt aaacagcagt gtagacttgt tcaatccaaa atgtgttaag 180
 gagtcccttc tcttgaaca tcgatctaac tattccata actgtgcgat tcttcterc 240
 ggaactcca ttctggtgag gagaataatg gactataagt tctgcctta tgccttcac 300
 ctacaaaaat atttcaaat cgcgagaggt gtactctttg cgcgatac ttcttagtac 360
 tttatctaa ttccacttt gattttca 383

<210> 16670
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 16670

tttcttttag aagaagatac acacatgttt tgccatgcc aatcagcaa ccttgatcat 60
 accattaaga tctactagca tgcttgagcc ctttatatcc ctgtaggatt ggacacatta 120
 ggttcagata cttggaacta gaaataataa tgtatattat catttgttac atattaacac 180
 ctgtgcagcc gatctcttgc atgcatgtag gctatagcat gaagaatctg tctggtgtta 240
 catttcgcaa gagatgtctt gaaagggcca tatacctgat gcaaattgcg aa 292

<210> 16671
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 16671

agcttgatat ctacatttgt gtgaaaagtt atgagcattt gaatttctca agagcttcca 60
 ttgttcaatt tccagcatct cgatatatta taagcctgaa tccgacattc gtgtgaaaag 120
 ttatgaacct ttgaatatct gaagagggtc cgttgttcaa ttccagacct ctgcacatat 180
 tatacgcctg aatogaacat ccgtgtgaaa agttatgacc atctgaatct gcaagagttt 240
 ccgatggtta atttcagagc tctcgatata ttataagcct gaaaaggaca ttctataaa 300
 aagttatgac catttgaatt tctcaagagc ttccggtgat caatttcgag cctctctaca 360
 tattatgcgc ccgaattctga cat 383

<210> 16672
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16672

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tcttagagat ccaggttggg tggagagata agtccctgnt ttgctgattt aaagcatttg   60
acttacttgg acctgagcgc caatgaatac cttggagaag gtatgtcaat tctttctttc  120
cttgagacaa tgacttccct gactacctt aacttttttc ataactggatt ctggggggaag  180
aatctctctc aaaatgggaa tctctcaaat ttggtgtatc ttgacctgag ttcaaagtgt  240
ggcaacggaa caataccctc tcagatcggg aatctctcta agcttcgata tcttgacttg  300
agcgccaata tatttcttgg agaaggcatg tcaattcctt cttttctcgg gacaatgact  360
tcttgactc acctcgacct ctctggtact ggattcatgg ggaagattcc atctcagatt  420
tggaatctc                                     489
  
```

<210> 16673
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16673

```

tctttctctg tcactttttt aaatgaagga ccagaaaaca tgccacccca ttgtggaaaa   60
gagattaaac atattggcag ggtgcatatt atgatcatgg ctcccattag agtgattcct  120
ctttcttttg aaaacttgga tcttttgaag aaaattaact gggtcacaac tgcaccacaa  180
ttgcctctct cctctgtcat tccagatatg acccctaatt acctgaanat atatgtgtat  240
gctaattgat naingtagaa ttaatcacia aagaattatt ggcatagaag ctatgcactn  300
tggttatatat ct                                     312
  
```

<210> 16674
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 16674

ccaaaagtcct attaacaact tccgtttgccc catcggtttg tgggtgacaa gtggttgaaa 50
 ataacaattt aatgcccaac ttgctccaca aagtcctcca aaaatgggtt aggaacttaa 120
 agtccctatc actaacaatg ctctttggca aacctgggag tctcacaatc tctttgaaaa 180
 acaaatcagc cacatgggaa gcctcctcaa ttttttaca tgggataaaa ttggcattt 240
 agaaaadcc acaaaadcc acaaaaatgg aattctaac atggcttgg ttgggcagcc 300
 caaaacaaaa 310

<J10> 16675
 <J11> 426
 <J12> DNA
 <J13> Glycine max

<400> 16675
 tatgttgcaa atattacaa tagacctcct caacctcctc ttttaaattt atcacagcag 60
 agcaattatg acctctccag caacagatac aatctggat ggaggaatca cctaacctc 120
 agatgggcca gccctcagca acaacaacag cagctgctc ctctcttcca aaatgctgct 180
 ggcccaagca gaccatacat tctccacca atccagcaac agcaacaacc ccagaaacag 240
 ccaacagttg agggccctcc acaaccttcc ctccaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
 ggacaattgg ctacccaatt gaatcaacaa cagtcaccaga attctgacaa gctgccttct 420
 caagct 426

<J10> 16676
 <J11> 437
 <J12> DNA
 <J13> Glycine max

<400> 16676
 tctttaagaa gattcctaaa gaagctagag cttagctaca cctacctctc taatagctaa 60
 gctaacctcc ttgagatgag aagctagaac ttaactaac accctttata atagctaagc 120
 tcacccccc atacaaaagaa aacatgaaaa tacaaaaaaa agtcttact acaaaagacta 180
 ctcaaaaatgc ccgaaatad aaggctaaaa ccttatacta ctagaatggc caaaaatacaa 240
 ggcccaaacg aaggaaaaac ctattcta atttacaaag ataagcgggc tcatacttag 300

cccatggggct cgaaatctac cctaaggctc atgagaaccc tagggcctac ccttggatct 360
 ttageccaat ctacttggag tcttctaccc aatgcccttg cgggatagga tggcatcaca 420
 aagcatcaaa attcaat 437

<210> 16677
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16677

ccatggaatt ntatgcgatg acatgggact tggaaagaca cttaagcat cagctattgt 60
 ggcctctgat atagctgagc atcgaacttc aattgggaat gaggatcttc tgcactcttt 120
 aattatttgc ccatcaactc tagttgggca ctgggccttt gagatagaaa agtatattga 180
 tgtttctggt atctctagtc ttaatatgt tggttctgct caagagcgaa tgcttctctg 240
 ggatcatttt tgcaagcata atgtcatcat aacgtcatat gacgttgtcc gtaaagatat 300
 tgattttcta tgacagctgt tgtggaatca ctgcatctta gatgaagggc atataatcaa 360
 gaatgccaaag tctaaagtta cacttgcttg taaacagttg aaagcccaac accgcttgat 420
 attgagtggg acacctata 439

<210> 16678
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 16678

gtggatgaat catcccaacc ttacatgggc gatatcttca caactagtag caacaacaac 60
 cttattttca aaatgttgcg ggcccaagta taccatacgt ttctcacca atgtagctgc 120
 aacaucagca acagccctaa aaacagtaaa cagtcgaggc ttctccgcaa ccttcccttg 180
 agaactttga ggcaaatgat atgcaaaaaca tgc 213

<210> 16679
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16679

gattgatgca acattnggag agattaatga aacaacgata tgattcgctc catgatttgt 60
 tggatcaaat ggagaataga gatcataatg aagaagaaaag gaggaggaga gggaatgatg 120
 tggatgatga aaaaaccca attaatggta taaaactcaa catctctccc ttaaaggaa 180
 aaaaacaaa aagaatga ttaaaatggg aagaacaaa aaaaatga ttaaatga 240
 aaaaatga ggaggacaa aaggtgaagc tggcgccac ggagttttc gattatgctc 300
 ttgtgtgggtg gaacaagtta cataatgaga gagcaagaaa tgaagagcca atgggttgata 360
 catgtgcaga gatgataagg atcatgatga agcgggtatgt ggcggctagt taactaaggg 420
 atttgaatt caagct 486

<L10> 16680
 <L11> 312
 <L12> DNA
 <L13> Glycine max

<400> 16680
 ggacactttt agcaactcct tacatgaata caataatcat tcttcacac gagcaaaaaa 60
 tatccagccc taaaatctt tcaggccatg gcattgccat tggcataggg gccaaaggaa 120
 ccttcacga ccttccttag tatttgcctc acttcactta catccacgca ccggagtaac 180
 accatatcat gytctctttt gtatagcacg tccccattca aaaaaaagtt aactgccaac 240
 ctccgtagtg tctctctgtc attctcaaag gctcatata ggtactcctt atctttgata 300
 tctctcttga ta 312

<L10> 16681
 <L11> 431
 <L12> DNA
 <L13> Glycine max

<223> unsure at all n locations
 <400> 16681

tcatgtcttn tgaacttc tctctctta aactgcaaat atatgcaagt cagtaacaat 60
 tgatccccc aaatcaaatg gtaaaaatc aaaaacttga gcaagtttta cttctcttcg 120
 ataagtctct tgacatcaaa gatgctcctt tctgggttga cagctgcttg attcttgga 180

gccttcccaa tgagtctctc actgtcggtg aaagcaaccc acgatggggt gatacggtta 240
 ccttgggtgt tggctatgat ttcaacatgg ccattcttgt aaacacggac acatgaatag 300
 gtgtttccaa gatcaatgcc gatgaccgtc cctaacttgg tggcttccct ctttagcaatg 360
 gaaatggtaa atagacatcc taaggagaaa tttctcaatg ttagttaaat agttaaattt 420
 ttapaacact t 480

<210> 16632
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 16632
 gacacttoga aactcaagct tctatagaag tccatttcta attgtctaca atagcatttt 60
 ctctcaatga tctggagaca aagaacgtgg cattgacctg tggtgaaaaa caataagcag 120
 cctttgcttt gctcaaagaa aagcttacta aggcacctat tctagctttt gctgaactttt 180
 ctaaaaacctt tgagctagaa tgtgatgctt ctggagtggg agtgggagct gtattgggtac 240
 aaggtggaca cctatttgc tttgttagag aaaaacttta tagtgccacc ctacactacc 300
 ccacctatga taaagagctt tatgccttaa taagagctct acaaaacttgg gaacattttac 360
 ctgtttccaa ggaatttgtc attcataatg atcatcaatc acttagtaca 420

<210> 16683
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16683

ggatctttta ggtttttatc tttaatcttt tatccctgaa cgaactatcc aaagttgtaa 60
 ttogaacttt aattatcttt taattcgctc cttaaagatag atcgccaaat ctgttgctaa 120
 ctgcacatta atctgttaaa gatataacag atttatgtgt ccagtatttt cgggcaagat 180
 gttctggaca tcttatccga catcgtggat cctgcagctt caattcttca ttgacattt 240
 tatcttgcct tgtgcattgt gcagcccaat ctgattccct gacataaccc ttgacatcat 300
 gtgcagcaac tccagcttct ctccatttgc taagtgccta tgttttaaca aaatttta 360

<210> 16684
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <150> 16684

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ttatcaactgg atttgcactt cctgtttggt ccgacaaaact ttattctggc atcaactgatg 60
ggacagtttag gataagggac tgcctaatcgt gtcactgtgc taaagtcata aatctttggg 120
tgaaggtac ctttttgatc agtgaggggg catggatttt tgttgggtctg caaaatgctg 180
tgaaggttaag ctttttatctg gcattgggtt ggtttgatgt atgataatgt ctaatcataa 240
gagtagtaca tgcaaaactga ttagtgggct gtggttgggtg tgaaagcttg gaatatccag 300
accatgtcag aagttactct cgatggacct aaaggccgaa tccctgccat gaattgtggc 360
aacaatacac tctntttctgg cgcagaggta actaaccatg ttattaatat tgcgcaatga 420
tattccocta accg 484

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<210> 16685
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16685

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agcttggttg ttacagtga cacaattggg ctggagatga agatgattgg aaaagracca 60
gtggatttgt gtttttcata ggaaacacaa ccttcacttg gatgtcaaaa aagtagccga 120
tattcactct tttagctcgt gaggcagaat acgtagcagc tacttcatgt gtttgtcatg 180
caatctagca taagaattta ttaaaagagt tgggcatgtc acaagaagag ttgaccaaga 240
tctttgtgga taataagtta gtcattgttc tagcaaggaa tccagtgttc tatgacgaa 300
gcaagcatat tgataccctt taccactaca taaggggagt catagcaaga aaggatgtac 360
atgcagaata tgtgaagtct caagaccaag aagctgacat cttcaccag ctgctcaage 420
a 481

```

<210> 16686
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16686

```

ttgacagaaa ttgacatcg taacattgta aagttacatg gtttttggtc acattttcaa 60
taattatttt tgggtgtgtga gttctggag atgggpgacg tcaagaagat tttgaagyat 120
atgacaaaat caattgcgtt tgattggaat aaaaaggagg atgttggtta aggtgtatca 180
atgtgtat ataatatgca taaat ataat ataat ataat ataat ataat ataat ataat 240
agcaagaatg ttcttttggg ttccgattat gtagctcatg tctcagactt cggaacagcc 300
aagtttctta atccagattc atccaattgg acctcttttg caggaacott tggatatgct 360
gtctcaggtt aatttcttt ctctatacta tttagttaa taatgatatt ntagtgtgtc 420
tttgttagcc atttataaat atatat 446

```

<210> 16687
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16687

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tctaagaata gccttgataa ctntaacata atccattgat tcttccccaa aaaatatagt 60
gtcatcagca aattgaagga tattcaactgc aaccttggtc ttccccacca taaagttgtg 120
gaagcagttg ttggatattg ctctctcat cattcctgtc aaacgttcaa caaccaagtc 180
aaacaataaaa ggggcctaaag gatccccctg tctcaaacct ctttgaggct taaattcagt 240
agttgggctt tcattaacta cgatagatat agaggctgat gtgaggcacc ccttgaccac 300
actaatccac ctgtcatgaa accccattct tctcatcata taaaaaagga atttccaaga 360
acatagtgca tangctnttt cgaaatccac tttaaaccac aagcaagacc tctttgacct 420
cctaagcccc tcaacaacct cat 443

```

<210> 16688
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16688

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tgcataata aagaggctt atgggttcaa atttatgttg atgataaat ctttggatct 60

```

actaatgaat ctttctgcaa ggagttttct attgacatgc caaatgagtt tgagatgtcc 120
atgatgggtg agttaaacta ctttcttata ttacaaatca aaccaacaaa tgatgggata 180
tttgtcaacc cagcaaaaata ttacaaggaa ctcatcatga aattcggaat gaagaactca 240
aaacacttgg ctactctat cagcactggt tgcctcctt gacaagatga atccggtcaa 300
ctcgttgata aaadcaata tggadutug atggatctc tactttact atata 360

<210> 16639
<211> 344
<212> DNA
<213> Glycine max

<223> insure at all n locations
<400> 16639

tgagaatgga gaattgtact aagcaatcac ttggcatagc tccaaactcg aaggtggagg 60
acacatgaac gaaaacacaa ttcatgggjc ttcgaaaaag gggttgagaa tggagaatta 120
cactaagcaa tcaactacgc tagctccaaa ctogaaggty gaggacacat gaacgataac 180
gcaattcatg gggctccgaa aagattgaga atggaaaatt gcactacgca atcaactacg 240
atagcttcaa acgcgaatgt ggaagacaca tgaatgaaaa cccaattcat ggggctccca 300
anagattgag aatggagaat tgcactaagc aatcaactac cata 344

<210> 16690
<211> 437
<212> DNA
<213> Glycine max

<400> 16690

agcttttact atcctattca aatgttaaca tgactgttac cctaaaataa aatcaccaaa 60
caaaagattg ccaaaagtat ctcccaccaa ccccgaaat caaatctcat actccctcgg 120
tttcaaaaata catgtccatt ttgaaaaat tgcggtaacc aaggacaggc taatttgaca 180
caaaagttcc tattttacc ttgtccttca tttctccat tttatattta tttatccac 240
ctcataatta ctcccatac caaaattaat taaagttaat caaattacaa taccaataca 300
tactggcaat accaatacta ctaaatggca ttatgtttgc ttgggtatg aaaaagctcaa 360
tgggcatagt tgggtatca aaagtittta aaactcaatt gaaaaaactt cctccatta 420

ttacatatac tataatc

457

<210> 16691
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16691

ttaaacccct caccagaagg aagactttta tagaagatgt atctccaatt tcttagaggt 60
gagttcaaat tcttacatat aaaagagttc gaatccattt tccattattt ttttagattt 120
cttgttggtt tacatcaaat aaaaagaaat ggtgagaagt tagaagatgt tagaattatg 180
gagaagata ctacgccccg tagatcccaa atttgagcat attattgtga caatcaagga 240
aaccttagat ttaaaaacca tgatgataga acaacttcaa ggatcattgc aagcttatga 300
agagaagcat aagaagaagc aacagatcac taagccactc tccaagatgc aactgatgga 360
gaaggaagaa agtcaacgaa atga 384

<210> 16692
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16692

agctattgnn ttttaattct agagncnnga natatnacgg gaattattcg aacattcgag 60
ttaaaagtta ttggcgcttg catttgctca gagctttcgt tttcaatgac gagtgtctcg 120
atatgttaag ggagtgatcc gagttaaag ttattgtcgt ttgaattttc taagagcttt 180
tgttttcaat ttttaagtgc ttgatatatt acgggactca atcggacatc cgagttaaaa 240
tttattgtcg ttgcatthg ctacagagctt atatactcaa tttcaagcgt ctcgatatat 300
taagggatcc aatcgaaaat ccaagttcat agttattgtc gtttgaatat gctacgagct 360
ttcgttttan attatgagcg tctcgatata ttacgggact caat 404

<210> 16693
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16693

ctattcggac ctatgatact cagcttgtag gtagttctct tgattgacct atttgatatt 60
 ccatttactt gntatttcac attctggtag gtttaaata taataatggg acagtgtgtc 120
 ctcaaatct aagaatgaaa ttggttattc aatatagaaa aaaaaagaa aggtataatg 180
 agtaattggg atataaatt ttcaataat catctcatt tatcaattg atataaada 240
 taaatttgaa ctattaaatt aagttagcaa tataaaacta tcttattaag tcataaaata 300
 tatatatcaa aataagaaaa aagataagac ttacttact ttccagttaa attaaaattt 360
 gaatttaata gaattttttt cttctaata attgaaggat taaaataaat aaaaataata 420
 attatctata ttgggtatct gaacacgggt acccttatat aatgtgtcta 480

<210> 16694
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16694

ntggagtaaa aggcctacta aagaaggcaa taggggtggc tttctgcgat aagaactgcac 60
 ccattgtgac accaaacacg ttgttttcaa agggaaaagg gataatgaag tccggcaaga 120
 gtaaagtagg ggtatagaa agcacatct tcaatccagt gaaaacttgt tgcgccttag 180
 atgaccactc aaaggggtac ttcataagta acctggttaa ataagctgca atggaggcat 240
 agccacgaat aaatcgggtg tagaaaccgg agaggcccaa aaaactgtgc aaggccttgg 300
 aggaatgagg ttgtgggtcac tgctaaatgg ctnggacctt agccgacact ggttcaactc 360
 ctgtgtgaaa aaccaggtga cccaagaact caacttggtg ctgggcaaag gtgcacttgg 420
 atagt 425

<210> 16695
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 16695
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caacagtcac atcttttttat ctgattctta agtggccatc aaaggettat atatatgtga 120
ctagagacac gaattgaaca agagttttga agaacaaaaa ggtcttacc tottaacaag 180
caaaaattggt ttatctcttt acaaattctt tggccaaaaa actcgtgatt caataaggaa 240
ttatttgagt gttcaaatg ttaaatctat ctcttctag agagattct tcttctctc
tcttctctc tcttctctc ttaagatacc gagggtctct tcttctctc ggattctaaa 300
tcttctctc

<210> 16696
<211> 377
<212> DNA
<213> Glycine max

<220> unsure at all n locations
<400> 16696

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aacaccccc tgggtgggtc taacaattgg tgggtttctc aatttttttg ggtatttcat 120
aatttggctt gcagtggcca gaaaaattgc taagccccc gtttggaca tgtgcttgta 180
catcttcat ggagccaatt ctactgttc caccaacact ggagtcattg tcaacaggt 240
aaagaacttc cctggcaca ggagcattgt aattggctc ttgagtgggt atcttggctt 300
gagtgcagct atcatcctc agatatacta tgccttctat ggaaatgatt ccaagnttct 360
aatttgcctc atggcat 377

<210> 16697
<211> 349
<212> DNA
<213> Glycine max

<400> 16697

acctacgata tttaatggag agggttacca ctactggaat acccgaaatgc aaatctttat 60
cgaggcaata gatctaaata tctgggaagc cattgaaata cggcttata taccacacac 120
agtataaaga gtttcaatag atggtagtct atcaagtga agcataacca tagataaacc 180
tagagataga tgggtctgaac aggatagaat acgagtacaa tacaacctaa aacctaaaa 240
cataataaca tctgacctaa gaatggatga atatttcaga gtttcagatt gtaagagtgc 300
taaagaaatg tgggacactc ttgattaac acatcatagg aactacaga 349

<210> 16698
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16698

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 aattttccctg ctgcaaggto accaaccgca gtgacatctg agaagcttgg aaatataggg 120
 actgtaaaagc agcttaaaaag ttcaagactg ggacttgaga agagtgaag gttaaaaaac 180
 tctgtattgt taagtttgac natttgctta ggtcacata tgnnagctaa tgttggtgat 240
 tccatgtagc agggcaggto gtccaccaac caggaaaactt tctgatcgta aagcatatgc 300
 agccagaaaa ccttcagcaa ttagtgcac agcagatttt ctggtacta attctctgctt 360
 ctagaaaaga gtaatgatct caagttctca tctgtataat asa 403

<210> 16699
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16699

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 tcaaatacaa attgattagt tagactaaga ataccgatag actatcttat cattgataat 120
 atattctatc aaatacaaac tgattagtta ggctaacaac actgatagaa tatcttatca 180
 tatattctat cagttattac ttattagatt gtacatatta attcttttat ttaaaaatat 240
 cattgtcaaa gtaggataaa tatttaatta tatacaattt gttttattaa ttattaataa 300
 ccttctactt tatctaata atttatactt aacagatgag tatttntctc attataacta 360
 tgtactatcc aatgtcttat tagattttta ataacatatt atccatttaa ttacagatg 420
 actgtaattt gatcaatcat tagtatatat atttatacta tccacccgatt aagttaaaq 479

<210> 16700
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16700

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nlaaggaagc aatgcattac cccacatgga tcaatgcaat gcgattatct gctgaattct   60
atgagaaga attcaacatg ggaacttggt aatctgcctc ttgacaagaa acccatagaa   120
ctgaagtggg ttatataagt gaaggtgaaa tccaaatgag gccagacttc tctcaaaaagc   180
gtctttatga aaactctggg ttgactatgg tgaggtctat tgcactctgg caagaataga   240
aacaatgaga ttggtggttag caattgcaaa tatataaggt tggctctatgc ataaaactaca   300
tttgaagctc gctttcttaa atggacagct agatgaggaa gtttatgtgg accagccact   360
ctttgagaca ttgggacaag atgaaaaggt atacagattg aaaaaggaat atatggtctt   420
aataagctcc atggcttgga aca                                           480

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<210> 16701
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16701

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acaaacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca   180
caccctctat aatagctaag ctacccccca tgacaaaata catgaaaata caaaaaatat   240
ccctactaca atgctactca taatgcctcg aaatacaagg ctaaaacctt ataactactag   300
aatggcctaa atacaaggcc ccaatgaagg anaaacctat tctaataatt acaaagataa   360
ggaggctcat acttagccca tgggctcgaa atctacccta aggcctcatga gaacctacg   420
ggccttcctt ggaatctctg cccaatctac ttggactctt ctatc                                           480

```

<210> 16702
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16702

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 gagtaattca tctcacaggt cgtgaacttc ttacttaggt agtaaacaga ggcctctctt 120
 ttccgggatt cgtcatgttg cccacagata caccccattg actcgtccaa gattgtcatg 180
 taaaaaatga gaggccttcc aggtactggg ggcataagca cgggaggaat tattaagaa 240
 tcttgatcc tttcaaaaaa cctcttgcaa tcttcattcc accagtcagt ttatattta 300
 tgcagaagat taaacacgg cttacaaatg ggggtgagct cgcataagaa tctggcctta 360
 taattcaa 368

<210> 16703
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 16703
 agcttttgcc tcttcattgt tggaaataga atgttgcata tagatccaaa gaaccttagg 60
 tgccttgctg atggcttatt cccgttccaa gcttcaatag gtgtcttgct tttacagac 120
 ttagtggac atctgttgag tatgtaaaac gcacagtaga ctgcttcaga ccacaatgtg 180
 tttgtactc tcttctcttc gacatogac ctaaccatat ccataattgc gcaattcttt 240
 ctctctgaca cttcattctc gtgaagagaa tatttgacta taagggtggc gctcaatgcc 300
 ttcctctca caaaatcttt catactcgg agaggtgtac tctttgcgg gacacttca 360
 ttaaaccttt atc 373

<210> 16704
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16704
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 ctccaattct taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatat tgggaagcna tagaaatagg gccttatata cccaccacag 180
 tagaaagagt tcaatagat ggtagtccat caagtgaag cacaacata gaaaaacct 240
 taatagatg gctgaagag gatagaaaac gactacaata caacctaaa gccaaaaaca 300

taataacatc tgccttagga atggatgaat atttcagggc ttcaaatgtg aagagtgcct 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 ngataaatgc actaactcat gagtatgata tatntagaat gaatgcaaat gaaaata 477

<210> 16705
 <211> 4-
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16705

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 gaaagaaatg aatgatgaat acatgtgttt catattatat acaatcaact ttgggcacca 180
 actaactac tagaaaatac aactaactat aactgcttct aactgtcaaa acagaaaaca 240
 gttagtgcct aactaattct atatgttgag agccctccca atatgaggaa tgtatgttag 300
 acatttcocaa cttagagctgc aaaagacaaa aagcaatagg agagaaagct ttggtgaata 360
 tctgggcaag ttgataggct aaagatatag atagaagatt gatcaagcct gaaagcaatc 420
 tcttgccacac aatgttggaa gttaattttg atgtgctttg tgcgtctatg aaacacaggg 480
 ttgac 485

<210> 16706
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 16706

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 atttccatat gctagaaaat cattaatagt acaaaaacac attgtggcgt aactgaatgt 120
 ctactgcaca ttgtcatccc acacatctac cctttcttcc cacaattgtt tcaagtcttc 180
 gattaatggc gtaagatata catcaatata attccctggc tgccttggac ccgcgatcat 240
 catacacagg ataattgtatt tacgcaaaat gcacaaacat gggggaaggc tataaatcat 300
 caataaaaaca dcccaggaac tctgggttgc cttaagcta ccataaggat tcattccatc 360

agaagcaaga gaaagcctta

330

<210> 16707

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16707

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atagagcaag aaatgaatag ccaatggtg atacatgggc ggagatgaaa aggatcatga 120

ggaaggggca tgtgccggct agctactcaa gggatttgaa attcaagctc taataactaa 180

cccaaggcaa catgggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

ggaagattga agaagatgag gaggttaacta tggctcgatt tcttaatggg tggactaatg 300

atattgtga tatcgttgag ctgcattgag ggttgagat ggatgatctg ctccacaaac 360

cactccatgt agagcaacaa t 331

<210> 16708

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16708

ggtgcaccca ataccctgat gaggatgtcc catatgttct taaatctgta ctgattcatt 60

tgcttccaaa gtttcattggc cttgcaagtg aagaccgca caaacatttg aaagaatttc 120

acattgtctg ctccaccatg aaacccccag atgtccaaga ggatccata tttttgaagg 180

ctttctctca ttcattatag ggagtggcaa aggactggct gtattacctt gctccaaggt 240

ccatcacgag ctgngatgac cttaagatag tattcttaga aaaaaatttc cctgcttcca 300

ggaccacaa catcaagaag gatattccat gtattagaca actcagtgga gagagcctgt 360

atgagtactg ggagagatat aagaaactat gtg 393

<210> 16709

<211> 365

<212> DNA

<213> Glycine max

<400> 16709
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 taaaaagtta tcatcgtttg aattggctca gagcttcaac attcaatttc gaacgaactg 120
 atatatgagc ggaatcaatt agacatcaga gaaaaagtt attgttcatt gaaatggctt 180
 agagattcca catcaatttc cgaagctctc aatatattac cgaactcaat caacatcccg 240
 aaaaaaaat ttttttcgtt tgcattcgtt caaagttt caaatcaatt tcaagctctt 300
 tcatatatta tgggactcta tcagacttcc gagtcaaaaag ttattgtcgt ttggatatgc 360
 tcaaa 365

<210> 16710
 <211> 454
 <212> DNA
 <213> Glycine max
 <23> unsure at all n locations
 <400> 16710

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 atcgagatgc tcgaaattga atgtggaatc tetgagccaa ttcaaacgac aataagttnt 120
 taactcggatg tetgattgag tcccgtaaca tatcgagacg ctcgaaagtg aatgttgaag 180
 ctctcagcca attcaaaaga caataacttt ttactcggat atctgattga ttaccgttat 240
 ataacgagac gctcgaaatt gaatgttcaa cctctgagca aattcaaaag acaataactt 300
 cttctcggga tgtttgattg agtctgttaa tatatcgaga cgctcgaaat taatgtttta 360
 gctctatcca attcaacgac ataactttta ctctatgtct gttgagtcca taatatacga 420
 gacctcgaca tgaattcgaa ctctattcat tcaa 454

<210> 16711
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 16711
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 ccttcattaa gaactagctc ttttcttctt ctatcgccct taggtgaata cacttttgtt 120
 tgggtctcta ttgggtcttt aacctttcca tgcactttt atacaaactc tgacataaat 180

tccccctctt tatggataaa agaagtgtcc actgggaggg gaatgaggtc aaactgtgtt 240
 aggggattga acccatagac aacctccaaa ggggactggt tgggggttct ttgaaccccc 300
 ctgctgtatg caaattctac atgaggaata tactcatccc aagaattatg gtttcttttc 360
 aaaaaacccc tta

<210> 16712
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 16712

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 ttctctgaat caatcaagga cataatcttc tcccgggcag catctgggac tactctata 120
 tggagcacaga caaatatctc ctgagctctt gcttgcttct tgaagcaat tctcttcate 180
 ctgtctggctt tcagctgacg aagtctctca acttccactt cagcttttat tattaagga 240
 aaaaaacagt taatatcata ctctggaactc gaatctgtaa acttcataag ttcttttagta 300
 cctactgtct caatcagatc cagagcaagg gcaccaggaa cagtgaactc atcaacagaa 360
 gctgacatat tacaggtaac atgggtcaat agtctctttt cctcgggatg agtatccatt 420
 agattccaaa gatcaattaa ctgagaagct aattcttg 458

<210> 16713
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16713

tctttaaagc anaagataaa tagcaataaa taaaagaagt ctaaggggaag agaggtatgc 60
 aaacttgatt tatactgggt cggccacttc tctgtcctac atccagtcct caagcaaccc 120
 acttcagatt ttccattctc ttgttaaaac tctttttaca aagtctgaac cacacaggga 180
 caaccttttc ctgtgttca ggaatctctt ataacaagag acccaccgtc tcttaatccc 240
 ttttcagaaa aaagaagaag agaagaagaa atctctctta aaagagatag attgtacaat 300
 gaagatcaat caaaattctt tatgcctat gcaagtgggt gaccaaggaa tcttcttag 360

aagataagac agttcagttc agaaaaactc ttaatctttg aaaggataaa acttttttggg 420
 caatgaaaaa tcccttttgaa ttgtgtttc caagtcacct ttga 464

<210> 16714
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 16714
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 aaaaattcat gttgccccga atgattgcat attgaacaga catgaattag aagatatgtc 120
 aaaaatgcctt acgtgtggga tatcagcgtt caaagtcaag gatgatgagg agtgtattag 180
 tggatgaatac tcaacgaagg gcccccttag caaaggatgat gtggatatctg tcgaacgttc 240
 caaggttttaa ggtgtctttat gctaaaggat acgacgctaa agatcttaca tggcatgcac 300
 atgacagaaa atgcatgga a 321

<210> 16715
 <211> 237
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16715
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 ggttatgttt ctacgagagc tggaggaaat cttanaagta actcaacctg cagagttgca 120
 acgttgatgt gtaaccattgt tccaccaaatt aagtcgttgt ttgagcagtt cacatttaca 180
 ggtttgataa ctattactag tcttcagtag ttactactgt ctctcgtgat catatat 237

<210> 16716
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16716
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 ttataattta atatataaag tattttatat agcgtgtaac gtaacgatac tttaacacct 120

aaatatatgc atgatagtat tcaccattta acacaacaaa taattgatat aagattaatt 180
 tgatgaaaaa aaaaagaaaa agagattata cattcacatt tttgtgctaa caaaaagaag 240
 ttaacaaaga caataaatta ataactgata ttttttaatt aaaaaaacac tcaacaaaca 300
 aattaaatgc taatatattt aattaaaaaa acactcaaca aatagtaact gatatatttc 360
 aattaaaaaa acactcaaca tatagtaact gatatatttc aattaaaaaa acactcaaca 420
 aatagtgcta gtagtgcatg ctagatgata gaggaaaaa gaggaaaaa ggaadaaada 480
 tttagcaca 498

<210> 16717
 <211> 396
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16717

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 catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120
 ttccacattg tetgtccac catgaaaccc ctagatgtcc aagaggatca catattttctg 180
 aaggttttcc ctcattcatt agagggagtg gcaaaagact ggctgtatta ccttgctcca 240
 aagtcaccca cyagctggga tgaccttaag agagtattct tggaaaanaa ttcccttget 300
 tccaagaaca cagccattag gaaggatata tcaggtatta gacaactcaa tggagagagc 360
 ctgtatgagt actgggagag atttaagaaa ctatgt 396

<210> 16718
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16718

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 ctagnaccca catgattcca gcagttatca atatatattt gcttatttaa aaaaatactc 120
 catattttta taagatatgg cctctcaaaa aaaattgggc gaattaatct cttaacatag 180
 ccaaccagca tgagatcatg ctctcagaca aaaagatctc acttgcctaa tccagattg 240

atattttaag atgcattttt ctcagggtag ttaccagcct cagcctcaca tagctcaaga 300
 gctgttaaat ttccctgaag aaaatctcac agttcaacac atccaacaat ttttggggat 360
 tgtaaattat atcagagatt ttatcccbag atcagcccaa tataccagtt ta 410

<210> 16719
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16719

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 acaccaatta ttgttgata ggtatcatca tttttatgct aagaaaatca tgcacatcag 120
 aaagaataag ttaaaatagt ataccaattg gtacaatagc accatctgag ccaccacaaa 180
 gcateaagtc ctgcatttac ttacattttt aatgttttca ataaaataac tatataatta 240
 cactaaactt gtnttaagaa ataaaagatt ggtaaaatat gagaaatcta ccattataata 300
 agcaaagtgt gaagtggagt acttacagct tcacctctaa tgatatgggt tgcagcattc 360
 aatatacaaa aattactagt agcacacgct gtagagattg aataaatang gcccatccac 420
 ccttaaagtt ttcattatgat aaataaataa ttggttagaa gctatatata gac 473

<210> 16720
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16720

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 aaacttgatt tatactgggt cggccacttc tcttgcttac atccagtcct caagcaaccc 120
 acttgagatt ttccattctc ttgttaaaac tttttttaca aagctctgaac cacacaggya 180
 caacccttcc cttgtgttca ggaatcctct ataacaagag acccaagggtc tcttaattcc 240
 ttttcagaaa aaagaagaag agaagaagaa atctctctta caagagatag attgtacaat 300
 gaagatcaat caaaattccc tatgtcatat gcaagtgggt gaccaaggaa tctttttgag 360
 aagataagac agttcagttc agaaaaactc ttaatttttt agaaduatan aactgtttgg 420

gcaatgaaaa ctccctttga atntgtgttt ccaagtcacc tttgatggcc attcata 477

<210> 16721
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16721

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 aaaaatntaa gcaatgtcga taattntatt aacactactt ttcatttcac tgggtgcagca 120
 ttaattatgg gcttaacatt ctacagggca ttcaaaatga gaacaaaaac ttaaaaaaat 180
 cactgaaggt aatttaatat tagatgttac aattataaac cttctctcat catattttgt 240
 ggagatattt tgcattacta ctggtatcca tctagtctct ttaacctgtc atgatttgaa 300
 tngtgggaatt gtcacctgta ttctttgaat tgttnttcca ggatgtggtt actgagaatg 360
 aatttgagaa aaaaactctt gctgatgtta ttcgccaac cgatattggg tcacatttga 420
 tgatatttga gctntagaaa atgtgaagga caccttg 457

<210> 16722
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16722

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 gacattaga actaacgaat tcagcaataa cttccttaga aaggacttcc tcttggacaa 120
 aatgacaatc aatctcaata tgttttagtc tctcatggaa tactggatta gaagctatat 180
 gtaggggagc ctgattatct caacatagct tcatitgttg agtatttcca aacttcaatt 240
 cttaaagaag ttgtttaatc caaatgagct cacatgtggc taagccata gctctatatt 300
 cagcctctgc actagacctt gcaacaacat ttgctctctt actcttccat gagacaagat 360
 tctctcaat agacacacaa tctctaaag tggaaagcct atcaatgggt gatcttgcct 420
 aatctgcata ccaaaattca actatttggg tgttctcttt gctctcat 468

<210> 16723

<211> 338
 <212> DNA
 <213> Glycine max

<400> 16723

ctccagagagct tctatggttg aattccgagc gctcggatct attataggct tcaatcgaac 60
 ctcagtgttta aaagtatatga ccatttgaat ttctgttagag catccgttgt tcattttcga 120
 aggtctctat atgtagatgaa ccttaattcgg acctccgttgt gaaaagttat gactatttga 180
 attctctcgag aacttccgtt gttcaatttc gagcgtctcg acatattatg cgcctcgaac 240
 ggaatccat gggaaaaagct atgaccattt gaatttctcg agagcttccg ttgttcaatt 300
 ccgagcgtct ccgatatatta tgcgccccga tgggacat 338

<210> 16724
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 16724

atcaactcgac cggggatcct taagtcacct gggcctgcaa gcttgctttt aattctgac 60
 agaatcaatt ttctgatctt caaaacctag ctccggcttc ctcttcccca tatcaactat 120
 gcagcttgcg gtcaacatga atggccttcc caatattaca gggatgtcag tatcttcaga 180
 gatatccatt accacaaagt ctgtcgggaa gataaaatgt tttactctga ccaacacatc 240
 ttcaattact ccatatggcc tggtaatgga gtgatcaact aattgtaaag tcatttgaat 300
 gagcattatt tcccactctt ccaatctttt gcacatggag agtgacatca aattgatact 360
 tggaccaggg tcaataaaaag cttttcccac ttgacttct tcaattgaac aaggaatagt 420
 taca 424

<210> 16725
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 16725

tgtaatcgat tacacatata ctgtaatcga ttaccagagg agatttttat ataatactct 60
 aaacagtcac gctcttctct ttggttcttg aatggctatg aaagcctat atatatgga 120

cttgagacac gaatttgcga agagtttttg tgaacaaaaa gatcttatto tottaaaaaag 180
 caaaaattggt ctatctctctt acaaatacct tggccataac acttgtgatt caataatgaa 240
 ttattagagt gctcaaatgg ttcaatctat ctctttcaga agaaatacgt cttctctctct 300
 tottattctt aaaaggatta aaaactg 360

<210> 16726
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16726

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 aaacaattat gatataaatt taatactatt attttatagt cattgtattc actatatttt 120
 ttattgtcat gttataaata tattatttagc agcatataag ctatccctat caagaggaag 180
 gggcacacat ttgagttctt atacaattag taactataga ttccctacta tttyggcaatg 240
 cagataacga acgaaccccg actcttcaaa taatttttaa tatatgactt ctactagtgc 300
 ttaagttacc ttcttttatt ttggaattta tgttctagct ctttagaaga cattaaacca 360
 caaatatttt ctatttttaa aaaaacaaca agtgaattta atttatatta a 411

<210> 16727
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 16727

cgtacggtta aagtctcagc atggtcacgt gctcatgcaa caattgttat tcgtggctat 60
 acgagacatc ttgcgaaaca aagtcagggt agcgataact cgtttgtgct ttctcttcca 120
 tgcctatagt agcaaagtc ttgatctagt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgcagttgg agatgtattt cccccccgcg ttcttttgac atcatgattc 240
 acttgattat gcctctgggc agagaaatca aatgtttggt tctgtttat ctacgggtgga 300
 tctacccagt tgagcgatac argaagatct taactagggtt tacaagaagt ctatctgttc 360
 cagaagcctc tatgtttgag acgtacattg cagaagaagc cattgaattt tgttcataat 420
 acttacagaa tgcctaacct gttgggcttc ctgagtgctt gcctgattat a 471

<310> 16728
 <311> 414
 <312> DNA
 <313> Glycine max

<323> insure at all n. locations
 <331> 16728

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agcttctatg cttctcccaa agcttctatg agcttctctc agaattggga agtgaacatc 60
tgatccctgt ctgatacaat actggaagga attccatgca acctaacac ttctttgata 120
tadaactcca ctgacttttc cattttatc ttcatattca cgggaataca ctgagtagat 180
ctggtaagtc gatctacata ttcagccaca tctttcttcc tgcctatgca ccaaacactt 240
ctcttcaaat cttygcacat cttagacatt ccacgatgga aactaagaag acctttatgc 300
gtcttcttca tgatctttac tgtcaaatca tctaaagatg aacagcatat gctccctctg 360
aatttaatta taccagtcca gccctctcca actctacctc cttatccccc atta 414
  
```

<310> 16729
 <311> 393
 <312> DNA
 <313> Glycine max

<400> 16729

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tctatagaag gttcattcct aatttctcta caatagcatt tctctcaatt agctggcgaa 60
gaaaaatgtg gcatttacct gtggtgaaaa acaagagcaa gcctttgctt tgcctaaaagc 120
aaagcttact aagycacctt ttctagctct tcttgacttt tctaagactt ttgagctaga 180
atgtgatgcc tctggagtgg gagttggagc tgtattgtta caaggtggac acctatttgc 240
ttattttagt gaaaaactat atagtgcac cctcaactac cccacctatg ataaagagct 300
ttatgcctta ataagagctc tccaaaactg tgaacattac cttgttgaca aggaatgtgt 360
cattcatagt gatcctcagt cacttagcac att 393
  
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<310> 16730
 <311> 323
 <312> DNA
 <313> Glycine max

<400> 16730

gacattatca ttattacttc ttcacgggtg ctggaacgta cttacatgga cttgatggg 60
 cctatgcaac tagaaagcct tggaggaaaa aagtatgcct atgtggttgt ggatgatata 120
 cctagattta cctgggtcaa ctttatcaga tagaactcac acacctttga agtattcagg 180
 atgttagct taca ttcac acagatagg atgtgtcat caa 240

<11> 16731
 <111> 1
 <112> DNA
 <113> Glycine max

<400> 16731
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 agattgaactt gctagttag tataatgtaa gtgccacttt caatgtgtct gatctatctc 120
 tttttgatgc agatggcgga gccttggatt tgaggacaaa tctttttcaa gaatgagggg 180
 gggatgagga cataaccaat gaccatgaag cactggaatg tcccatgacc atatgcagac 240
 ttatacaagc ccaacgcgtc atagagacac ggctggtcac ttgtatcgtt gccattgatg 300
 atgattg 307

<110> 16732
 <111> 443
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 16732

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 cccgcacatag taatgagaaa caggagcatg tctcagagta ataacatata catcaccaaa 120
 ataatactct atagttagata aataatcata ttgggatgtg cctaggtaaa taacaaatgt 180
 ataatgatta cacttcacag aacaacatgc ataaatatac cagatctaaa cattatgcaa 240
 gttattctga cctaggttgt tgtcaagagt cttggtgaac tggtcocaaag ctggagaaac 300
 ctccaacctt tgcctcagaa tctcttctgt cctctgaatt tgaacattct ttggccactt 360
 catgaaccga gtcaagtctc tcttcagaggc aaagccctt cgaattctgaa cctctttgac 420
 gcttctcaac agcagatttg aac 443

<210> 16733
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 16733
 agctaccac tataggaaag tatggataa gtttggagg tggagaaata t tcttggagg 60
 tggaggaga gttggagatc caaattttat gtttcaattc aggtctaaac tttgaagtat 120
 attttcttaa taatcaaaagt tgaaaaaaag cacacacatg gcattctatt atagcctaag 180
 tttcacaaaa ttggaggaaa atttgaattt ctattcaaat ttcaattgaa ttgaaattg 240
 aatttgggga gcaaaaattt tactaattat gatttagtgaa ttttagctat gtttcaaccc 300
 actaatccaa gatcaagtcg aagattcctc actaagtgtg ctttaagtgtc atgtggcacc 360
 taaagcatga aggcacatga caaagtgtga cta 393

<210> 16734
 <211> 396
 <212> DNA
 <213> Glycine max

 <400> 16734
 agcttgaccg ttacgagtcg gtttagtcaa aggtaaaagt aacttggaga aactttctat 60
 gaattctctg gagtatcctg ccaaacccag aaaactccta atctctaaaa cagatttggg 120
 actctccac tcaagaacga cttctatctt agatggatct acagctatgc ccccttgaga 180
 taccacatgc cctaggaaac taactttctc taaccgaaac tcacacttgg acaactttagc 240
 atagagttgt cgatccctaa gtgtatgcag cacaatcctc agatgttctt catgttctc 300
 tctagtcttg gagtatacca aaatatcctc tatgaatacc accacaaaac tatcaaggta 360
 aggttgaag actctattca tgtagtccat aaacac 396

<210> 16735
 <211> 414
 <212> DNA
 <213> Glycine max

 <400> 16735
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 aaaaaagtha ttgtcgtttg aatttgcga gaggttcaac attcaatttc gagcgtctcg 120

atatattacg ggaactcaatc agatatccga gtaaaacggtt attgtcggtt gaattgggtc 180
 agaggttcaa ctttcatttt cgagcgtctc gatatgttat gggactcaat cagacatccc 240
 agtaaaaaagc tattgtcggtt tgaatttggc cagagattca acattcaatc tcgaacgtct 300
 ctatatatta tttgtatcaa ttgacacccc tggtaagaag ttattggctg ttgaattggc 360
 ttgacatc ttatattaat ttgagcgtc ttgatatac ttgggactca atca 420

<210> 16736
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16736

ctgagccaat ttgagcgcaca acaacttttt gctcagatat ctgattgtgt ccagtaatat 60
 taagagagcgc ttgaaattga atgttgaagc tcttagcaaa ttcaaacatc attaagtatt 120
 taactcggatg ttgtattttg tcccgtcata tatcgagacg ctcgaaattg aatgttgaac 180
 ctttgagcca attaaaacga caataacttt ttaactcggat gtctgattga gtcccgctat 240
 atatcgagac gctcgaaatt gaatgttgaa gctcagagcc aattcaaacg acaataactt 300
 tctaactcga tyctcgattg agtcccgtaa tatatcgaga cgtcgagat tgaatggtga 360
 aacctcgagc caattcaaac gacaataact gtttaactcag atgtcggatg ggcccgctga 420
 ta 480

<210> 16737
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16737

tcagaattca atttcgagcg tctcgatgta ttacgagact caattattac actccgagtn 60
 aaaaagttaa ttgtcgatgt gaatttgggt gagagcttca acattgcaat ttcaagcgtc 120
 ttgatataat aaggaaactca atcagacatc caagtaaaaa gttattgtcg attgaattat 180
 gtctcagcgt caataattca ttccgagcgt ctcaataaat taagggactg aatcagacat 240
 ccgagcaaaa catattgtc gtttgaatca tctcagacat tcagaattca atttcgagcg 300

tctcgatata ttactgggtct caatcaaaca tctgaggaaa aaagttattg tcatttgaat 360
 tctgtgagag ctccaacatt caatttggag cytttggatg tattacyyga c 411

<210> 16738
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 16738
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 gtaggttcaa agtgactca ggtgtttgtt gatcaactac cytgactaaa cacccttggc 120
 atagcttttg ctcgcataga ttttgcacca tagggtttga acgctcccca cactcaccct 180
 cggcgcactg agatccttat agtccttgag ggtactcttt atgttggatt tgtgacttcc 240
 aatcaagatg gaaatcgctt cttcaccaaa gtgtgaaca agggtgatgt gtttgtgttc 300
 ccaattggtc tgattcattt ccaaatgaat atgggaaatg ggaatgctgt tgcatttget 360
 ggccttagca gtcaaaatcc aggagctatc acta 394

<210> 16739
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16739

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 atatatcgag acgctcgaac tttaaaaacg aagctcgtag cagatttgaa cgacaatgac 120
 atttactcgg gaagtcctat tgagtcctgt aatatatoga gacgctcgaa atttagaato 180
 gaagctcgta gaaaatacga acaacagtaa cttttcactc ggaagtcoga ttgagtcctg 240
 taatatatcg agacactcaa aattttaaac ccaagctctc agaaacttct aacgacaata 300
 atttctactt cgggaaggccg attgagtcct gtaatatatc gagacgctcg aaatttaaaa 360
 cgaagctcgg tagcaaatte gaacgacaat aacatttc 398

<210> 16740
 <211> 468
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 16740
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 aattatattg aattagaatt agctcgagagc ttctgtttta aatttcgagc gtctcgatat 120
 attacccaaac ttaattcgagc ttctcgagtgca aatgttatcg tcttcggaat ttacttccaa 180
 attcggtttt aaatttcgag cgtctcgata tgttacggga ctccagtcgga ctctcgagtg 240
 aaatgttatt gtctgttagca ttgtctgtga gcttcgggtt taaaattcga ggcgcacgat 300
 atattacggg actcaatcag acttccgagt gaaatgttat tctcgttagc atatgtctgc 360
 agcttcggta ttaatatctg agcgtcttga tatattacga ggactcctcg gaattccgag 420
 tgaatgttat tctcgggtcaa attgctcgag ctctcggtta attcgagc 468

<210> 16741
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16741
 ntaatggctt agtgaggatg gagaggtgca agtaaggaag caagtagagt tggatatttc 60
 cattggaaaag tacaatgata aggtgctntg tgatgttggt cctatggagg ccagccactt 120
 actcttctgg agaccatggc aatttgataa gagggctaatt catgatgggt tcaccaacaa 180
 gatctcttctc acgcacaaag gcaaaaagat agtgctcaaa ccgttcgagtc cacaagaagt 240
 gtgtgaagat caaagaanaa tgagagagaa aattcttcaa gaaaagagag aataaganna 300
 agagagccaa acacttgaga gttcataaag tgaggacaaa aagagggaaa cacaagagag 360
 gaaaaagatg agtgaaacat ttgaagttag ggagaattnt ctagctacaa aaggagagat 420
 c 481

<210> 16742
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 16742

agcttggtccg ttggatgcct acccattacc cattagaaat agactagtag atagggcagc 60
 aagabcttgc ctacttagct tottagatgc atactcaggg tacaacaaa taaggatgca 120
 tccabaagat gaggagaaaa caaacttcat aacctagtcg totaactatt getatcagat 180
 tcttccattc ggcttaaaaa aggttagctc cacttaccag taccataagg acatgataat 240
 caattacaa atttcaaaa aattcgaggt atatgttacc taccatggta taactcttaa 300
 tgaatgagaa tccacacact atgacttggg agatatatt gcaaaagatc gaaagcataa 360
 catgtaactc aattcgaaga agtgtatgtt tggggta 397

<210> 16743
 <211> 475
 <212> DNA
 <213> Glycine max

 <220> unsure at all n locations
 <400> 16743

ntgtttttct tagtactcat aattctacat taattatttt tottgatgca tgattaacaa 60
 aactttaaca tgcagaattg ataagaggta aatgtcattg caacaatact atgtggtaca 120
 ctcttagtat gatcaccctt gcagaacct aaagattgtg aataacaagt caacatcact 180
 tagtgccatg gcaatggtaa agccaattac gccatttctt taggcctccc acaaagctct 240
 taattctata tatatttata aaaaaataaa tcaaatttaa attatcaggt aatatattct 300
 attgcattat ctattattat ttgcgtagcc agattataaa attttaatta cacatagata 360
 tattataaat catttgagaa gtttataatt catttgacaa ttatagaaaa attagtttcc 420
 atctacttta aatcttgtaa aatcacactt aatgaatata atgattcaat ttata 475

<210> 16744
 <211> 458
 <212> DNA
 <213> Glycine max

 <220> unsure at all n locations
 <400> 16744

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 tggatcttat caaagaacct cagcttataa ctacaaacat agttctgtct gtttttgttg 120
 tgrattgtca tgtggacaaa gtccatgcc atgtttgaga catctaagat tggcgtcttg 180

cctttgcccc gtattatatt ttgcaacatc ttcctttctt aaccttgtca ttacctcgaa 240
 atntaatat ggcaacttac tcttgtggaa aataattttt aagaattaat ataacattt 300
 aaaattaaat ttagaatatt aaaaaaatat aaaacataga tataattctt taggtgctat 360
 tgaatctttt ctcctgttag aattaaaatc gtacttcagt aatccacata aaaaagatat 420
 aatccataaa attacattca ttatcatagt gaaactct 480

<210> 16745
 <211> 425
 <212> DNA
 <213> Glycine max

<22> unsure at all n locations
 <400> 16745

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 gagcatattt tccccatgac catgcacctt gaatgaaaaa tgttctccct ttaagtttca 120
 tctctatcct tacacacatt acccattaac ctcttaacca taaaaagatc accttccagg 180
 ggttgtacat cacattcatt ttcactctca ctagaagaac tagaccagct agaagaagat 240
 aaactaatga taccctcatt acccaacaca accatagtc ttttgctagg acattgngag 300
 gcattatgac cctttcccaa acacttanaa catttaatat aacttacttt tgaagaagta 360
 ggagttagggt tagaaccaca ccatactacg agagaggttc cctctttttac catttttaat 420
 atccc 480

<210> 16746
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 16746

agcttgaatt tgaacaacag aagctctcga gaaattcaaa tggtcataac ttatcacacg 60
 aaagactgat tcaggcgcat aatatatcga gacgttcgaa attgaacaac ggaagctctc 120
 gagaaattca aatggctata acttttcaaa cgggaagtccg attctggcgc ataatatc 180
 gagaagcttg aaattgaaca acagaagctc tcgagaaatt caaatggfca taacttatca 240
 caagggaagtc cgaatcaggc gcataatata tccagagcct cgaatttgca caacgggaac 300
 tctcgagaaa ttcaaatggt cataactttt cacacgaaag tccgattcag ggcataata 360

tatcgagaag ctcgaaattg aacaacgaaa gctctcgaga aatt

404

<210> 16747
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16747

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tctcgagaga ttcggttgtt caattccaac ctcttcgata tactatccgc cggaaatcgga 120
cttcggtgtg acaagttatg accatttgaa ttcttcgaga gcttcggttg ttcaatttcg 180
agcgtctoga tatattatgc gcttgaatcg gaattccgtg tgataagtta tgaccatttg 240
aattttctca cngcttccgt tgttcaattt caattctctc gatataattt gcaccttaat 300
cggactacgc tctgaaaagt tatgaccatt tgaatttctc gagagcttcc gttgttcaat 360
tccgaccttc tccatatact atgcgcgcga atcggacctn catgtgacaa gttatgacca 420
tttgaagttc tccagagct 439

<210> 16748
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16748

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cttaanattc agatagtcta atgaaaaata aactttccac ttgatattcg gtatcaagaa 120
tcaaaattta aatcacatta aaatgaaact tgagaaacaa aatatgaaag caagaagtat 180
aaataagaaa taaattgaat atttacctat atatgtgtaa atattttctg aaaagatcaa 240
aaatataata cttaaatata tgggttaaaa tatacaagaa tgtatagcat tggacaatt 300
gtttaagtta ttgatatga taaacatatt gtttttactt tctgtaaatc atgatccata 360
acgttcatgt tatgaatacc cataacccag tgaaaacaat atttttctcg tattgcaagc 420
acccccaa 428

<110> 16749
 <111> 333
 <112> DNA
 <113> Glycine max

<400> 16749

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atctcaatg ctttagttag gatggagagg tccaagtaag gaagcaagtg gaattggata 60
ttccattgg aaagtaaat gataaggtgc ttgtgatgt tgttcattg gaggcagcc 120
acttactctt ggggagacca tggcaatttg ataagagggc taatcatgat ggtttcacca 180
acaagatctc ttccagcat caaggcaaaa agatagtgt caaaccattg agtccacaag 240
aatgtgtga gcatcaaaga aaaatgagag agaaaattct tcaagacaag agagaaaaag 300
aaaaagagag ccaaacactt gagagttcaa aaagtaagga caaaaagagg gaaacacaag 360
acaggaaaaa gatgagtga aca 333

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<110> 16750
 <111> 389
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 16750

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agcttcttat ttccagaaga tgaagatgaa tccgtggcca catcatggac ttctctaagg 60
acaatagcat cttttcttgc actgaattgt tgggagttgg aagcaatctt ctcaatcaga 120
ttcctagcct caacaggagt catatcacca agagctccac cattggcagc atcaatcata 180
ctcctttcca agttgstaag tccctcatag aaatattgca gaaggagttg ctccagaaac 240
tggtggtgag gacagcttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300
tctccactaa gttgctgat gcccgaaatg tcttttctga tggcagtggt cctagatgca 360
nqgaagaatt tctccaagaa caccctctt 389

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<110> 16751
 <111> 309
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 16751

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agcttaattg atccacaaga aaagaccatt acccgcttcc ctccatggat caaatgcttg 60

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 ctacagtaga tcttcaggat caagaaaaaa cagcggttac atgtcctttt ggtgtttttg 180
 cttatcacccg catgttggtt ggtttatgta acgccccctgc tactttctaa agatgtatga 240
 tggcaatttt tggatggcag gttagagaaat gtatcgaat cttttaggat gatttttcga 300
 tcttgggtgc atcttttggg aatttcctag caaatitaga gaaagtctta cagcggttgc 360
 aagaatcta 369

<210> 16752
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 16752
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 gaaatctaca cctgttgcaa gagtctgtgg tctatgttct tctacagatc accatacaga 120
 tctttgtcct tctttgcagc aatctggagt taatgaacaa cctgaaactt atgctgcaaa 180
 cttttataat agacccctc agcagcaaaa ccaacctcag cagaacaatt atgatcttcc 240
 aagcaacata tacgatccag gttggaggaa tcctccaaat ctgagatgga caagtctccc 300
 acaacaacaa cagcctgtcc c 321

<210> 16753
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16753

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 caagttgaaa gccttggagg aaaaaggtat gcctatgttg ttgtggatga tttctccaga 120
 tttacctgng tcaactttat cagagagaaa tcagacacct ttgaagtatr caaggagtgg 180
 agtctaaggg ttcaaagaga aaaagactgt gtcacaaaga gaatcangag tgaccatggc 240
 agagagtttg aaaacagcaa gttacttcaa tactgcacat ctgaaggcat cactccatgg 300
 ttctctgcag ccattacacc acaaacagaa tggcatagtt gagaaggaaa aacaddactt 360

tgcaag

366

<210> 16754
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16754

agcttcacatt atcaattacg agcgctccga tatattacgg gaaccaattg gacatgcgag 60
cacaaaagtta ttgtcgtttg acttttttca gagcttttat tctgaatttc gagcgtctcg 120
atatactacg ggacacaatc ggacatccga gtaaaaagtt attgtcgttt gattntgctc 180
agagcttcctg ttctgaattt ccagggtgtc gatataccac ttgccaccat cggacatccg 240
agtaaaaagt tattgtcgtt tgaatttgcg cagagctttt gttttccatc ttgagcgtct 300
cgatatataa cgagactcaa tcggacatcc gagtaaaaag ttattatcgt tagaattggc 360
tcagagcttc catntcaat tacgagtgtc tcgatatatt ac 402

<210> 16755
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16755

tcaagctttt gtgtgggata cctaattgtg gcatagtttc caaacccctta aggaaaagtt 60
gaaggccgct cccatgctag ttntgcctaa cccaagagaa ccccttgagg tgtattgtga 120
tgcacaaaag atgcgttttag gaggagtgtt gatgcaaaat ggccaaggag tggcctatcc 180
ttctagacaa ctcaagactc atgagaggaa ttatcccacc cttgatctgg agttggctac 240
tgtatgtttt gcccttaaga tgtggaggca ttacctgttt ggcctcaagt ttacagtgtt 300
caaggattat aagagggacc atgacacana gatcctncac aaagaattta gtcccagaca 360
acaagta 367

<210> 16756
<211> 383
<212> DNA
<213> Glycine max

<400> 16756

tttagattat gaatatcaga tggcacttc gttctataat gttcaagaat ctcttgatcc 60
gtgggatcaa acttcactcc agcaggcagt ccaggtaagt catgaattcc accaccctaa 120
aattatccaa tggcacttc tttactaaa ttttttttc ataaaggaag cttttttttt 180
aatttttttt tgaatcaaac taagacaatt acatcaaaaag aaaaaaaaag taactcaaaag 240
gggtaatta tttatagat atatatcat tggcacttc tttttttt agaatctgat 300
cttggaattt gatatgatga ccacacgtag gacaagttct aattaagcta ttttttcttc 360
cttcaactat gatgttatga tga 393

<210> 16757

<211> 435

<212> DNA

<213> Glycine max

<400> 16757

tgcattgcc ccagtaatga tggcacttga cctgagttta gaatttgaat tgatgtgtga 60
tgcattgat tatgcagtgg ggcagttct aacacaaaagg caagacaaga tttccatgc 120
catttactat gctagcaagg tctcaatga tgcataaatg aattatgcca caaaggagaa 180
ggagatgcta gctattgctt ttggcttga gaaattcaag tcatatttgg taagytogaa 240
ggtaataatt ttcacgata atactgctat caaacactt ctcaccaaag tagattccaa 300
accatgactg attagatggg tctgcttat acaagagttt gatatagtta tcaaagacaa 360
gaagggatct gggagcgtgg tggctaata cctctcccag ttgaagaacg aaagagtaac 420
taaagaagaa ccgaa 435

<210> 16758

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16758

agctttatnt ttgacaacta atattgntaa ttgatgaacg ccatgcatgt ttgtgcata 60
tcattgacaa tgtttcaaa ttttttttaa tttttttt tgcagcattg tgatttttca 120
atcacacttg gatttgata ggtttcaatt aaggcaaaaa ttattatatt tgcattgata 180

actaaaatgt tctttgtaca tttttttctg tgtatataat attaatttat gtatatctaa 240
 ttgttaatar ttctgtatt tatagttatt gtattttatt aattatcatg tgatgtctcg 300
 ggtattatct gataggattt tttatcattt taatcacatt ggtgatgatg ctaatttaac 360
 tggatctca tttttctga 379

<210> 16759
 <211> 131
 <212> DNA
 <213> Glycine max

<400> 16759

ctcaagtttt ajctggacaa ttccgcgagc ctogatatat tattcccttg aatcgacct 60
 ccgagtgaag atgtatgacc tattgatctt gctaagagct tgcgagctca tttcgagcg 120
 tctgatata ttatgcccc gaattcgacc ttatgcgcgaa aggttatgac catatgaact 180
 cctcgagagc ttgcgttctt taatttcgag cggctcgata tattatgac ctgaataggg 240
 tctccgaggg aaactctctg accatttgaa tctctcagag ctgcattca tcagttttac 300
 cgcctcgaat attatcgccc tgaatccgac c 331

<210> 16760
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16760

tttgatggtg tggagaagaa atcacatgtn tgctattttc atttttagggg agaatgtgaa 60
 tgtatgtata catgaatttg atgatgtcaa agaagaatct aacaaggctg ctccaatga 120
 taagcatttg ctccaagaat aattcaagat tgcttcaaca aacaaagcct tgtttcaaga 180
 ttcaactaaag accaagcctt gccttaaaac aaagtgcctt caagacatgc aaggctctgg 240
 taatcgatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa atagctgttg 300
 aaaaaggctt tgaatttgaa ttttcaaat gtaatcgatt accatctgtc tgtaatcgat 360
 taacagcaac gaaactctgg aaattcatal tcaagtcctt aacctgca: attataactg 420
 tgtaatoga 429

<210> 16761
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16761

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atcttcttgg aaatggaac atttctatc gaagtgaaa atcagctca aagctctgag 60
atgagcctg gcttgcctca tggagattg aagtgaacta aagattgtcg ctaagtcgac 120
tcatgggttg gaggaagact tgagaagctt ctacttcagt ggaattaggg tttgtgccag 180
gtcaagaag atgagacgca ggattggcaa aaggccatgc ttgaaggatt cgcgccttgg 240
gtgaatcatg ggggttgggt ccttgcctca tgaagatggc atgcacgaca aaggaggtcg 300
aggauctagg agggggaaaa gtctatgggg aagaggtggt angtggggga aat 353

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<210> 16762
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16762

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tctgcttgaa ggtaaactan atgccttggg taacctggta acccaactgg cctgaataa 60
aaaatctgca cctgtcgcca gaatctgtgg tctatgctcc tctgtcgacc accacacaga 120
cctttgcctt tctgtgcaac aatctgaagc aattgaacaa cctgaagctt atgctgcaaa 180
catctacaac aaactctctc aacctcaata gcaaaatcaa ccacaacaga acaattatga 240
cctctccagc aacaggtaca atcccgatg gaggaatcat cccaacctta gatggtcgaa 300
tccttcacaa caaagcaac aacaacctta ttttcaaaat gatgtggcc taagcagacc 360
atacgttctt tcaccaatcc agcagcaaca acaacaac 398

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<210> 16763
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16763

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agcttgacgg agttggcgc atcgggggac aatttcactt taaaagtggg tccaattgg 60

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attccaatt tccaacttac ctatttggaa gtgacatcat ggcgcctatg tcccagctat 120
 ccattgtgga tttagtcaca aaacaaaactt gaatatgttg gactatctaa caggngatt 180
 ttogattcta ttccacaca gatgtgggaa gcactttctc aggttttgta tttaaaactc 240
 ttggaattc ttggaattg ttggaattg actacattaa agaattccact atttatccca 300
 atttatctc taaattcaaa tcaattgtgt ggtaaaattc cctattctatc aagtaatttg 360
 tttagtttg atttttcaag caattcattc 390

<210> 16764
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16764

ttgagagatt cccgatctga gagggttctg ttctgttttc aacaaacataa ctcagggtcaa 60
 gataacaccaa atttgagaga ttcccaattct gaggaggaat cttcccgttg attccagtat 120
 cagagagggtc taggtgagtc aaggagctca ttgcacaaag gaaagaagaa attgccatac 180
 cttctccaag taaatcattg tagctcaagt caagatctcg aagcttagag agattccoga 240
 ttgaggagg aattttcccc atgaatccag taagagcgag gtcgagggtga gtcaaggaag 300
 tcaattgtcc atggaagaa ggaattgaca taccagctcc aaataatata ttgccgtcca 360
 agtccaagta attcaaattg tntaaatcag ccaaacaagg acttatctct ccac 414

<210> 16765
 <211> 389
 <212> DNA
 <213> Glycine max

 <400> 16765

ttaagtttat taagtgttga tgattataac acatatatat ctatatgaat tgttaaaata 60
 aattacgaat taatagttca aataataaaa taaaattaaa ggaaattaat atattaagat 120
 tcaacgataa ataactttta tgcattttta gtttaattat ttattaacta tttttaattg 180
 aaaaaaatat agtttgattt aatatatata tgttttgtgc catgtaaata ttaattctct 240
 gtgatgtgta tattttctat aaggtgtcat aacatgttgc ataggaatta taacattgtg 300

attgagattg gatgtatgtg ataaatcgag tatgtgttga attgaagata catgtgtata 360
 agatottgac gcattgagtt gtgagctat 339

<210> 16766
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16766

nttaacccct ttctaaatga taggctcaaa atttgataa atattccttt tcaaaatggt 40
 tgaagagat atgtcttttc aaaaagcttt ttctgaactt ctccactggt aatcaattac 110
 aggtttctgg taatcgattg cattattata ttttgaaggg tcatgaactt tgaatttgaa 130
 ttccaagagt ttcatgtctg gtaataaatt acagacatat agtaatcaat tacatgttca 240
 aaattcaaat tcaaaacccct ttccaacagc tattctctaa acttcccatc tagtaatcga 300
 ttcaactgcc ttgtaatcga ttaccagagt cttggatgac ttgaaacct tatgttttaa 360
 ggcaaggctt gatcttgaag aaatcttgaa gcacgactct gtttgttgaa gcaatcttgt 420
 attaatcttg aagcagt 437

<210> 16767
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16767

tcccactgat gagagtctgc tcaactcatgt tgcactttt ctaatgattn ttcccccttt 60
 tggattgaca aatatagggt gttttttgtg tatatttcgt ctgattgggt tgtatcattg 120
 atttctcttt gcagataaag gatggatttg ctgagggcaa ggatcttggt gtgtctgtca 180
 tgtctgctat gggtgaggaa cagatttgcg ccttgaagga tattggggca aagaactagc 240
 ttttgggtgt ggcagcctgt tgtttctatt taagcaaaga tcttttcta agcctttata 300
 ttgggttgtt caagacctgg cttatggctt atagattcta gtcagactag tcttaacaat 360
 ggtgtttatg gatgtggcca cagaaactat atcacatttt ttctgggttt ctatgctgtc 420
 ctatga 426

<210> 16768
 <211> 436
 <212> DNA
 <213> Glycine max

 <400> 16768
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 ttaaacataa aaagggaaaa ggtaatattg tagccgatgc tttttcttgg cgtatgcat 120
 tactttctat gtttgaaaca aaattgattg gtcttgaatg ttgaaaaagc atgtatgaaa 180
 atgatgaaac ttttggagaa atttttaaaa atttgtaaaa attttcagaa aatgggtttct 240
 tttagaatga aggcattttt ttcaaagaaa acaaattgtg tgtgcctaaa tgtttacta 300
 gaaatttgc tttttgtgaa gcacatgaag gaggtttaat ggggcatttt ggggtccaaa 360
 agactctaga aacattacaa gaacattttt attggcctca tatgacatag gatgtgcaga 420
 aattttgtga acattg 436

<210> 16769
 <211> 432
 <212> DNA
 <213> Glycine max

 <400> 16769
 taggcctaga ggggatggac cttttcaggt tttggatatg atcaataaca atgcctacag 60
 gttggacctc ccagaagagt atggagtcag caccactttt aacattttct atttaattcc 120
 ttttgcaggt ggaactaata ttgaggagga ggaactaaca gatttgaggt caaatctctt 180
 tcaaggggga ggggatgatg caatctctcc taggaaggga ccagtcacta gagccatgag 240
 caagaggctc caagaggatt gggctagagc tgttgaagaa ggccttaggg ttctcatgaa 300
 cctcagggta gattttctgag cccataggcc aaggtttgtt ccaattatct ttgtacatat 360
 tagattaaga tgtcattata ttttgtcttt gtatttaggg ctccatgatg taggtagggt 420
 accctagaaa ta 432

<210> 16770
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 16770

tctgcttcta tctgtcttct tcatctttac ttgggtatc tcagacctt tatgtttgt 60
gtctaagatt ttgcatacac ctctttcaaa gtgaagtgtg tagcttctct ccatcatttg 120
atcaatgctt acaatattt ctcttaggtt ggaactac aagacatcat ggatgagtcg 180
ctatcttcta tctcttctca ccatgacagt gcttttctt ttctattcaa ctacacttcc 240
attctacagt cgaactttga ctctgacaga ctgttcaatg ctcttgaaaa tagtctcttc 300
cttgggcctg tgaattgtac atccactatc caagtaccag ctctctctct tttcttttat 360
tgactcttga ttggcataga acgtacattg tcttgatca tg 420

<210> 16771

<211> 342

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 16771

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gactccaaga agattgggcc agagatgtag gagaaggccc tagggttctc aagagcctta 120
ggatagattt ttggcccatg ggtttagtat gagaccactt atctttgtac atattagatt 180
aagggttcat tatttttggg ccttgtattt aggyttccat agtgtaggga ggctaccctg 240
gtaatatagg attttttagc ccttgaattt tatggcacct agactagttt ttgtattaag 300
ggtagttntg taattttaca tgcattaagt gcactatttg at 342

<210> 16772

<211> 400

<212> DNA

<213> Glycine max

<400> 16772

agcttgtaca ttcaatttcg agcgttccga tatattacgg gactcaatcg gatctccgag 60
taaaaagtta ttgttgtatg aatccggaca tagctgcaac attcaatttc gagattttcg 120
atatattacg ggactcaatc acacatccga gtaaaaagtt attgtcgttt gaatttgcct 180
agcgttccgg tattcaattt cgagcgtctc gatattttac gggactcaat ctgacatcca 240
agtaaaaagt tattgacgtt tgaatttgcg caaagcttcg gtaattcaatt tccagcattt 300

cggtatatta cgggactcag tcgaacatac gagtaaaaaac ttattgtcgt ttgaatttgc 360
 ttagagcttc aacattcaat ttcgagcggt ttgatataat 400

<210> 16773
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 16773

tgtoctcggg gaagaagaca attgaataag cctctttttg cttttcacag gggtaacga 60
 ttctcaaat gaagggctct tgtttggaag tggcgatgag gtggagaaca acctcgggtgt 120
 cggaggtagt gttgaagatg gacctcgtgt cctcgaggtt ggctcggagg gtgcggtagt 180
 tgaagaggtt gccgttgtgg gccacgcga cggagccgaa gcggtagcgg gcaacgaagg 240
 gttgaaggtt tttagacatg gattggcgg cgttgagta tcggacgtgg ccgatggcga 300
 ggtgcgggg gagctggctc agcttcgact ggttgaacac gtcggaaaag agaccaacgc 360
 cggtgatgga ttggaggacg ttgttgtgaa ccgtaacgat tccggcgct 410

<210> 16774
 <211> 432
 <212> DNA
 <213> Glycine max
 <400> 16774

tctcaaagat gtacttaacc aggtccatct tggttatattt accaggtggt atggctcage 60
 atgtattgtc ttagacggtg ggacgcccag actaaagcac aacacgttct ttcgagcagg 120
 gagtagttca ttcatagga cgtgaacttt ttactcaagt agtagacage gcgttctctc 180
 ttccgggaact cgtcatgttg ccccaacata catccaatcg actcatccaa aatcatcata 240
 tacaagatga gaggccttcc tggtaaccaac gacataagca cgagagggtt catgagacac 300
 tgtttgatcc ttccaaacgc ctcttgacaa tctcattec aacggacgga ttggtttttg 360
 cgttaagagtt ggaataacgg ctcacaatta gcggtgagtt gtgatatgaa tctggcaata 420
 taattcaaac gt 432

<210> 16775
 <211> 424

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16775

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 ttaattcttt ttggaatagc tgatgttctg gatcgggcac ggcataatc atttatttt 120
 gtttaccatg ttatgaggt aaaaatctat ttctacatct ggaaggaaat atttatttat 180
 ctatacaacc atagtgtcag tttatccctt atatttcaag tcagtgcctc gcttttagaga 240
 gtctctcatg tgacattctg gactataaca ggagttgttg gctctggaag agcgcatttg 300
 aaatgtgagt actggattga gtgaggaaac tgtattgaaa cacttgaaac agagaaagca 360
 ctccgtctgan aaagggcttc agattgatgc agaaccctgt tgtgcttgtc aggtaaaact 420
 gact 484

<210> 16776
 <211> 433
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16776

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 acccaagatt tgttggaata ctcactcttc ttgtgaagca tgttataaag ggaaacaaat 120
 caaaaactacc tttaaatecg gagatattgt ttccactacc agacctttgc aattgtttaca 180
 tatggacctt ttggacctt caagaacttt gagtctaaga ggaaagaaat atggctttgt 240
 catagttgat gactattcta gatacatgtt ggtatagaga aaacggttat aactgtctgt 300
 aatttattaa atctataagg taattgatta ttgtaacaaa gttaccaatt agattatcta 360
 agtaatcaat taaagtgttc atccaatata tggaaaacaa ctcaagaaca atgtaatcaa 420
 tttatgacc tga 483

<210> 16777
 <211> 400
 <212> DNA
 <213> Glycine max

 <400> 16777

agcttttttat gggagtcgaag aaaatgaaag tgcctcgaaa ccattagctg gaaaagaaga 60
 ttatgatcgg gtaactaca tctgaactat ctttggaag aaaaaaaga agccatcctc 120
 tgagctaaac atatggaaga aaaggtcaat attctttgat cttcgatact ggtccgatct 180
 tgaattaga cctgtatag agtgaraca tctgagaaa atgtctacc atattttaat 240
 tgaattctt ataatatta aaggtcagc aaagatgt tgaagtgt ataatatct 300
 ggttgagatg ggtatacag agcagttgca cccgatctca caaggtccac gaacgtatct 360
 gccccagca tgttagataa tgtcaaaaa agagaagtga 400

<210> 16773
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16773

tagctctat actttataca agaatgaagc tctgatacca cttgttagac gagtggcctc 60
 agatatctta tgaagggggg gttgaattaa gatattccaa actactccc caattaaaat 120
 ctatttcaat tttatttoga gttataaatt ccttaataa tgaattctt aaatattgat 180
 tcaataaaaa caatttgaat atgaatataa agcaataata aaaaaaggag attaaggga 240
 gagaaaaatgc aaactcagat ttatactgtt tcggccacac ccttgtgctt acgtccagtc 300
 cccaagcaac ccgctngaga gttccactat cttgtaaatt ccttttaca gttctaaaca 360
 cacaaggaca atcttctctt tgtgtttaga attccattac aa 402

<210> 16779
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16779

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 ctattttcag attgggaatg cctctaacag cactttgtc aatgatttct ttcattgctc 120
 ttaagtgcag atgtccaaat ctttgatgac atatttgac tctatctctt tggagacta 180
 gacatgtgga ggagtaactg gttctttgag gttccatag gtaacagttg ccttttgatc 240

tgcctgcctt cattaggact tcactcttct ctttctcac caagcattct gaatttctga 300
 agtttactt gactccttca tcacacaact gactgatgt gatcaagtt gcagtcagtc 360
 ccttcaccag cagtactttg ttccagactan gaagtccttc atggactagc tttcccatte 420
 cagtgcac 480

<210> 16780
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 16780

tccgcttatt agtgcacaac tccttcttta atttagcata tcttggcaatt ttctttattg 60
 catccagcag agatatgttt acctctactt ttctaaatgt ttctaatatc tccttctctg 120
 cctctcccat tttcttcttg gaaattgttc ttctagggaa tgggaagagg atctgttctt 180
 ttcttaaatt agaattacca gtggaagatt cactgcata gaaattgtta ggtaacttac 240
 tcttttaaatt ttctgcata ttttttctg gagtagagtg aggttgggta gggtcatttg 300
 cggatgagga agatgtact ggtaaggtc cttgacactg ctttctgac ctcaatgtaa 360
 tggcactcac atttttggga ttctggacag attgagaagg taatcagtc ga 412

<210> 16781
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16781

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 aatcaagcca aggtctattgt gcaagcaatc aatggggcaa aacacaccaa attattatga 120
 tgatggatgg ctcaaatctt cacaaggtta aactcctcac ttctaaattg agctttcaca 180
 actatcatga catgtagaga agaattcaagg atttctactg tggcatttag ttttggggtc 240
 taggggtggg tagtgaagtg agtcatacca tgatggttca aatagatttt ttaacttaata 300
 gattcacctc catctattaga gtaaaatgag acaagtgagg tatttaataa ttttcatg 360
 aagactcaca attttggaaa aatagaagag acatctaat tttcttttaa tggatataac 420

aaacaata

428

<210> 16782
<211> 439
<212> DNA
<213> Glycine max

<400> 16782

ttgtatcca atagcttgar gaggatgtcc ctatggtct taaaactaga ctgattccatt 60
tucttccaaa gtttcctggc cttgcaggtg aagaccgcga caaacatctg aaagaattcc 120
atattgtctg ctccaccatg aaaccccggg atgtccagga ggatccacata tttttgaagg 180
cttttcccca ttcttttagag cgagtggcaa aggacttget ttattacott gctccacgat 240
ctatccaaag ctgggatgac ctcaaaagag tattctttaga aaaaaaattt cctgettcca 300
ggacacgcac catcagaaaag gatatttcag gcattagaaa actcagtggg gagaacttat 360
atgaatactg ggagagattt aagaagctat atgccagttg cccgcaccac cagatttctg 420
agcagcttct tctccaata 439

<210> 16783
<211> 337
<212> DNA
<213> Glycine max

<400> 16783

cagtttttgg tagacctaca ctagcgggtg tgcactacga ggttgatcct aatgatcctg 60
atccactcaa ggatttatta cggctacgtg atcaactttt gagcaagctg aaaagtaatt 120
tactaaaggc tcaacaatat ataaatatgc gagctgatta gaaaataaga gatgtgccat 180
ttaacgctgg agatatgatt ttagttaagg tacagcetta catgaaacaa tcagcggctt 240
tcaggaagca tcagaagcta tgcattgcgt attttgggtgc gtttatagtg attgaaaaaa 300
ttggtaagat tgcattataa gaacaactgc ctgagtc 337

<210> 16784
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16784

ctcagctgac cagaattatt gatgggtagg tgtgaatttt ttgttctctg ttgcggagat 60
gatcgtacag cgggtgaacc ataagcggaa gtctctcttg gtgaggtagc catggaaaag 120
catagcggtt ggaatgattt cgtatatctc agaaggctat tgggaaatgc tggttaaaac 180
acgaatgcca agcagatata aattttaatg aagaatgtat atgggcgtgt taaggaacgg 240
cgaatgcg cggcgg ga acatctatg aatcttaag cactgtctga cctacatgca 300
gattgcagta gctgctataa ttctctctag agacaaatgc ccatcttgcc cctcagtttt 360
tcaaaatgat tagcatcaca agcctttgtg aaaatatctg ctattngctg ctcagtgtca 420
acatgctcta gtgtgacac t 481

<210> 16785
<211> 394
<212> DNA
<213> Glycine max

<400> 16785
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agcagaacaa tcatgacctc tccagcaaca gatacaacc ttgatggagg aatcacctta 120
atctcaaatg gtctaacctc caacaacaac aacaacaaca acaacagcct gctccttctt 180
tccaaaatgt tgttgccca agcagacct acattccttc accaatcaca caacagcaac 240
agccccagaa acagccaaca gttaaggctc ctccacaacc ttccctcgaa gaactcgtga 300
ggcaaatgac gatgcataac atgcaggctc aacaagagac cagagcctac attcagagct 360
taaccaatca gatgggacaa ttagctacac aatt 394

<210> 16786
<211> 395
<212> DNA
<213> Glycine max

<400> 16786
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attctacccc ccaagggtat tggataaaaa acttcaagaa gattgagcca gagatgtaag 120
adaaggtctt aqattctca tgaaccttat ggtagatttc agaccatagg gctaagtatg 180
agctcaatta tcttgtaga tattaatata aggtttcatt atttttgtgc ctgtatatta 240

gagctccata atgtagatag ggtaccctag agatatagga attttcaacc cttgtatttt 300
 aaggaaccta gactagtctt tgtattatgg gtagttttgt aatttcactt gcattagtg 360
 aatatttgat gtgtgtgttg ggaaataaat ttaat 395

<210> 16787
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 16737

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 tgagcattct aaatgggtct ggaccccaat catagtgtgt atttttaacc aagatagggc 180
 atgatacga aacgtctcta tttagaactt cctgtattaa tcttgcgaa acatctagcc 240
 acccttagt gcatacgaat atatcaatto agcgttttag tccccattta tacaatacca 300
 agtgaatttg tgggtgatca tatgaacac taaggatttc aagttttcat ataggcattg 360
 aattcctcta ttctctatgt caactatttc tac 393

<210> 16788
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16738

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 gtctcaagaa gctgtcact ttctgaactg tagacagatg gagattcctt tccactactt 180
 gggcatcccc atttgggtca gactctcaaa tcaggtggta tgggagcctt tgatcagcan 240
 atttgaagct aaactcacta natggaaaca gaaaagctta tctatggctg gcaggggttaa 300
 tctgataaat tctatttga acgctttacc aatctatcta ttatcctctt ttaagttacc 360
 ccaadgaata gctgata 377

<210> 16789

<211> 443
 <212> DNA
 <213> Glycine max

 <400> 16789

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 tggatgttga aggtatgaa ggtttcaaca taagacaaac cgaataatat gtccacaaag 180
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 tgcacatttg tgaagttgca gccttgaatc acaaggtata caattgctga tttagagtca 300
 aagttgagat ttgaggtgtg tgactcagaa tcacaaatga cacaagtgat aatactatag 360
 attaatgatg tcataactgt ttccacttat tataactgaa ttgggttttg caccaaagca 420
 tagctagagt gttcatatat att 443

<211> 16790
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 16790

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 ttccatgcta tatgtagcaa agtcattgat cctgtcaagt ttgatgagtt ggaaaatgag 180
 gcgcgaatta tactgtgcca gttggagatg tattttcccc ctgctttctt tgacatcatg 240
 attcacttga ttgtgcatca ggtagagaaa atcaaatgtt gtggctctgt ttatctacag 300
 tggaggtacc cgattgagtg atacatgaag atcttaaaaag ggtatacaaa gaatctatat 360
 cgtccagaag catctatttg tgagaggtac att 393

<210> 16791
 <211> 424
 <212> DNA
 <213> Glycine max

 <220> unsure at all n locations
 <400> 16791

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 ctttccaagg ttatccttgg tgcctgaagat gaaacactgg catccaaatg ggtgacagtc 180
 ataaatgttg ggcttatgtc cctcccacaa tacataggaa gtctttttta agattgacct 240
 tatataaatt atgtctgtta aataataggc atgattgctt cctctctgca ataatgtttt 300
 tgaattcaaa taatctttaa gtaattgtct tcccatctcc tgaagagatc caatcctcct 360
 ctcaacaact ccattctagt gggatgttct tggagtacac aaattattat aataccattc 420
 tctt 484

<210> 16792
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 16792
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 aatctgtacc tgttgcaagg gtctgtggtt tgtgctcttc tgetgaccac catcacagacc 120
 ttgccccttc catgcaacaa cttggagcaa ttgagcagcc cgaagcttat gctgctaata 180
 ttacaatatg acctcctcaa cctcagcagc aaaatcaacc acagcagaaa aattatgacc 240
 tct 243

<210> 16793
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16793

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 atttcacatt gtatgtctca ccatgaaaac cccagatgtc caagaggatc acatatctct 180
 caaggctttt cctcatctat tagagggagt ggcaaaaggac tggctgtatt accttgcctc 240
 aaggctcatt acagatgtgg atgaccttaa gagagtatct ttgaaaaana gtttccctgc 300
 tccaggaacc acagccatca ggaaggatat ctcaagctatc agacaactca gtggacacac 360

cctgtatgag tactgcgaga gattta

386

<210> 16794
<211> 392
<212> DNA
<213> Glycine max

<22> unsure at all n locations
<400> 16794

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tgggttaca cacaagccat ttcagcagga ggagcataat tgggttgaac accaacaagc 180
ctatgagttt catcttgaag aaataatgag aaggtatcat caatatctgg agtcggtttc 240
atcaacaata ttgacctca agcatgggca aaactctctt tgacccccc cagaaatgac 300
atgacaaaatt cctctttgat ggaagcaaga agtggagcaa cctggccaca attacaacta 360
tgattggcct tgagttccac cagcttagcc ca 392

<210> 16795
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16795

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attactactt tgattttcag ccttgatctt tggttatatt attatgggat ttgaacaatt 120
taactattcc ctatttgcac ggtatgtttg gaccaatatt aagtatgta ttgactatg 180
tgaagtttat aattaatcta ttcatggttg cttgcttcat ggttttcatg gttcttgctt 240
cttgcctcat gatttggttg atatttttc atgaacattg tatgaatgtt tagttatatt 300
ttaaatcgca ctttcgcttt ttgttgatgc caaaggggga gagaaatggg attaaatcaa 360
gaactcacat gagtaattaa ttt 383

<210> 16796
<211> 376
<212> DNA
<213> Glycine max

<400> 16796

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atantggtaa togattacca gtgtgtttga acgttgaaat tcaaatccaa ttgtgaagag 120

tacatccctt tcaaaaaaat gtgtgtgta aacgattaca atgatttggg aatcgattac 180

ctgtgataag ttgtgaacaa aaatcaaaaag atgtaaactat tcaaatgggt tcaagttttt 240

tcaaaaggtt ataactcttc taatgggttt ctgacccaga taagaagag' tcaaaaaag' 300

aagttccttaa ctgtcatttt taagaagaac aatcattaca atctcttaca atctttgaat 360

ctctttgaac atcttc 376

<210> 16797

<211> 411

<212> DNA

<213> Glycine max

<400> 16797

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ttaccagcag caccatctca agctccaaca ttggatttgt tcaatcacc tctttccatcg 180

gcagatccat ctttcaacga gaatcaactt agtcaaacat cccatcttgc atctattgat 240

tttttttccg attttctctc gcagccttct actgtaacct cagatgggaa ggcactggaa 300

ttatctgtcc ctaaaaatga aggatgggca acttttgata tgctcagag aacctctctt 360

actgcacaag tggaaattcc aaccactgta ccttcaaag ctaaaatcttt a 411

<210> 16798

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16798

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agttgttgca caacatatgt aatgtctggc ctgtgtttgg tcaaatagat caacctccct 120

attaatctcc tataagagga aacatctctt gctgaaatag gtgacctga gtgttgatgc 180

ttgggtggtg aatcacaagg tctagaaaact ggcttagaac caagcatgtc aacattattg 240

agaatgtcca gtgcatactt tctttgatat agatttatat caatagaget tctagotacc 300
 tcaaacccca gaaagtacct aaagtctctt aagtccttaa ttltgaaagc attgtcaagt 360
 agatntgtaa ttctttgaat tttta 384

<210> 16799
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16799

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 aacgtagtga gtttagtctg ttttcttcc atcaatgaag tatcacgctt aagatgggaa 120
 gtgtgtgcag gagcacgggtt ttcaccacct gaagtaccag ctgcgacctt agtcaatgac 180
 attgaagcag gtggagatgc aaaagcagca gccacggctg gagatatcat agcatgggag 240
 gctgaaaga aatatcagtt aacagaagta gcataacgga acagaaaata aaaatgacta 300
 tcttgatata atgaactagg acaaccatt cccattagaa tataaatact tttagaaaca 360
 ctattcattc aagtcacatt acatatttgc ccacattctc ttgttattta tcaagctaaa 420

<210> 16800
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 16800

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 aggggtgaac ctgggtact agtacctca cctcagagg actacatgtc ctgccttca 180
 gagggcaca cgcctctgac ttcaaaggac ttcacgtctt cacttcaga ggactaacg 240
 tctctgctt caaagggtca tctacctta acttcagagg actacacgtc ctgccttca 300
 aagggtcatg taccctcacc ttgtagggc aacacgcctt cacttcaga ggactaacg 360
 tctctgctt tagaggggag cactcctctg ccttcagagg actacacgtc ctaccttca 420
 gaggaactaa cgtctctgac tta 444

<210> 16801
 <211> 439
 <212> DNA
 <213> Glycine max

 <400> 16801

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 agatatttg aatattagt attctcttta ttattcgat agatagattg aacatgata 120
 ttattttac tggctcttgg ttgtttatgg ttatgagttt taaactcaat tattttgatg 180
 atatatgatt agtgggtatgt actttttattt ggcattatag aatgactttt tggattatat 240
 gacattctat gaagtattat atttctagtg tgatgaatgg ttatgtttga ttgttttcta 300
 ctctgtgta ttgggtata ttattatggt atttgaacaa tttactattt ccttatttgc 360
 atgggtatgg tgaacaagta tgttatttga ttatatggat ttcatagtta ataataaact 420
 aaaattcaag tagaattac 439

<210> 16802
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 16802

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 agaaaagctt ttgggtctagt gataagcact tgattccaag tgtttcacca ataaatgaca 120
 agagtttcat aagtccaatt tcatgatcaa gtaaaaggtt tacagttttc ccatttgtgg 180
 taatgatggg gacatttttg ccattgattt gtgtcaactc tccatcaatc catgcactct 240
 caggatcttc aacccaaacc tgtgatccaa cgatgatggt cacaggtggt cctgaacca 300
 atcacaacaa ggcaagaaaa agtgttactg ttaacacatg atctgacagc aaataagtgg 360
 gaagatcca acaacaacca acatacaaca c 391

<210> 16803
 <211> 432
 <212> DNA
 <213> Glycine max

 <400> 16803

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 tatataaatt aatgtgtatt taaatggtaa ttaaattggt ttatcaattg taattacatg 120
 gagataaagg aagccatttc aaattaaaaa atttgaaatg atatgttttg tttttaatga 180
 ttaagcaatt atgaatttg attttcaat atttctaat tattactata atagagaaac 240
 taattcatat aatttattat cttctctttg tattcatcta gtctgatttg acacattgac 300
 atatgatgac aagtgtaaga tcatattcta aagaaaaaat tacaataaat tgtacttata 360
 tgtcaatcct ggatctataa ggatttttta tataatgaat ttaattcttt attcttaatt 420
 actataatca ta 432

<210> 16804
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 16804
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 tagagaaact ttctctccaa aatttgcttc caaaaattca atttcaaatt caagtgaat 120
 ttgaatacaa attcagattt ccttccaatt ttgtgtgaca cttacgctat aaatagacgc 180
 catgcgcgcg catatgttcg actgcgatca ttgaaaatt acacttcaaa tttctgacct 240
 tattttaagc actcattgag cytcgttcta ttctctgctt tattcaactt cttccacatc 300
 tacc 305

<210> 16805
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 16805
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 gatgaaattg acctatatg gccaagaaag gatacacttg atgatattgc tgatacat 120
 gaggacatac acattgatga gaaagggcat aaagggcaag gaaatggtaa tgaataagac 180
 tgtcatattg atgaaaataa aaaaaataaa tatagatctt ccaacagagt ggagaacttc 240
 aaaaatcat gctcttgata atactatttg tgacatctca taaggggtta caacttgaca 300

ctctctcaaaa gatgogtgcg ataatatgac tttggattcc ttaattgaac ctaaaaattt 360
 atatgaagcc ataattaatg aacactggat tattgctatg caagatcagt tatatcaatt 420
 tgaaagaaat aaagtctggg aa 442

<210> 16806
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 16806
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 gtgacttgag acacgaattt gaaaaaaaga gttttcataa caaaaaggta ttatcttctt 180
 aaaaagcaaa atcattttat cctctttcaa gagagatata ttcttctctt cttctttatt 240
 aggaaaaggg attaatagac tgatggcttc ttgttgccaa gaaatctgaa cacataggaa 300
 ggggtggcct tgtgtgggtg agatcttgta gcaggctgtc acaatatagt ggaactctca 360
 atcaagttgt ttggggactg gacgt 385

<210> 16807
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 16807
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 cttagaggaca cgaagctgtg caaggaaagc agcacataga tccaagaaaa gaaactgttg 120
 acctgcacc ctttgaagat caagcagata cttttcttcc cgggttttct aaagctgttg 180
 atgtgactgt aagaattaga gaatattctg gaaaagaatt ataactacc aataataaca 240
 gaagaattag ttatttgaga caatctgtct tataatttgt tataaactg taaagaaaca 300
 gcaatgattt acacgtgtat actgtctagt attataaaca tggagggagg gaagcaaaat 360
 aatcagaaga ctatttagtt atta 384

<210> 16808
 <211> 402
 <212> DNA

<213> Glycine max
 <400> 16808

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ttttctcaga ccagcgtatc atagtatat gatcattaat attcacacaa ataacagaat   60
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ttcaacttcc ttttttatgca ccttgaaaca aaacccaaagc aaaaaattaca ttacttttga   180
ttttttctat tttttttttt aagtaacaca tttttttttt acaattttat tttcttttcc   240
tttgaagaca ttatttcaac cacataaaat agtaccaaat tttacaaaac aagaccaaca   300
ttacccaaag agacacccca aaacatatca acatatcaaa aaaaattgca agtttaaactt   360
tttggggagcc caaagatgac aacttttttg tcttgaaaca tg                       402

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<210> 16309
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16309

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ggatccctgt cagatacaat actagaaggc attccatgca accttaccac ttccttgatg   120
ttcaactcca cgagtttttc cattctatac ttcattttca ccggaataaa atgagcagat   180
ttgggtgagtc gatcagctat gaccacacac gcatcatgcc caccactagt cttggggcaaa   240
ctagatacaa aatccataga tatgtctctc cattttccatt ccggaattta caatggcttc   300
aattctcttg atggctcgctg gtgctcaacc tttagctttt gacatgtcaa acatcttgc   360
acatatt                                           367

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<210> 16810
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 16810

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ttttacatag ttcttctttt cttagcttcc tttatgctta aaaaacagaaa cattagggat   60
tttccaaaaga ttaagaggag ttatggggtt aaaaacataa acaactttga aaggagaaca   120
attagtggtg ctatgaacaa ctctatttga agcaaatgca acatggggta aacaagcttc   180

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ccaagttttt aagttcttcc tcaaaaactgt cctaagcaaa gttcccaaag tcctattaac 240
 aacttccgtt tgcccatcgg tttgtgggtg acaagtgggt gaaaataaca atttagtgcc 300
 caacttgcct cacaagctcc tccaaaaatg gcttatgaac ttagagtcct tatcactaac 360
 aatgctcctt ggcaaaccat ggagtctcac aatc 394

<310> 16811
 <311> 399
 <312> DNA
 <313> Glycine max

<400> 16811

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 tgaactgaa ccaccttttg catactcaga tacaatgcac cataccattg gcttgcgga 120
 tgcaccaatg aaacgaacta tgttagaatg ctttagtggt gccaacattg tgaactcctg 180
 ctggaactgt tgttccatca attgagcctt tgetggatca ttttcaggcc tctccaagat 240
 tttgattgca acatcttcac cattgtaagt acctcggtaa agtttcccaa aagctccttg 300
 agcaaaaggc tcaccatata tcagtttctt gatatcaatt gtccactcat caaaattgtc 360
 aagccttca gtcggagaac tattgtccat tatagcttg 399

<310> 16812
 <311> 449
 <312> DNA
 <313> Glycine max

<400> 16812

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 gattgacaca ggcatgaac tccttgtcac tgaattaatg tttaatggtg aatcaatatt 120
 tttttcccaa ttatagttta catttcatta tgttttgtaa cctgtttttt tcccttcatt 180
 tccctccac cattaggtac ttttaatgac cttagaccatc atcaagttgc tgccttgcg 240
 atttgcttca taccaggaga taagtcaact gagcatatac aactgagaac agagcttgca 300
 aggcctctgc tacagcttca agatagtgc agaaggatag ctgaggtagg tgtttgttca 360
 cttaactga atgatacttc tgaattaaac tataaatggt atcacccttt tgcacagat 420
 acaacatgaa tgcaaatgg atataaatg 449

<210> 16813
 <211> 419
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 16813

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ggggtatctt ttctgaaaga ttgttgccc ctttttgac atgttctgta gttgcattct 180
atcctaagac atcatattga cactgcttaa cgaaggcaac cactangncc ttccaagaat 240
ggactcggga aggttccaag ttagtgtaac aggtaacagc taccocagta agactttctt 300
gaaaggaatg taccagcaat tctcatctt ttgggtatgc ccccatcttt cgcacaatca 360
tcttagatg gttcttgttg caagtagtcc ccttgtactc gtcaaagtct agcaccttga 420
acttgggagg ggtgatgata ttgggtact 449

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<210> 16814
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 16814

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tggatggcgg aaaaataaaa atatgtggcc atgggttttg ctccaataaa tactaccatg 180
ttaggtgtct aacaattaat cagttgaagt catatggtea ttgttggtac tgccttctt 240
gtttatgcgg ggttagctta actgatcaag atgatgatcg gattgttctg tgtgatggct 300
gtgatcatgc atatcacata tattgcatga gacctccggc gaattctatt ccaagatgga 360
actggttctg cagataatgt gatgttggaa tacaagcaat ccaccaggct aaacacgcct 420
atgaattc 428

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<210> 16815
 <211> 418
 <212> DNA

<213> Glycine max

<400> 16315

tgaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccgttgt 60
tcaatttoga tccctctgac atattatgca ccggaatcgg acatctgtct gaaaagtcac 120
gttcatttga atttctcgag agtttccgat gtttaatttc gaccdtatcg atatatata 180
acctgaatc ggaacctcagt ctgaaaagtt atgaccattt gaatttgaac agagcttcag 240
ttgttcaatt tgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
ttatgaccat tgaatttct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360
gattcgcttg aatcggacat ccgtgtgaaa agttatgacc atttgaattt ctcaagag 418

<210> 16316

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16316

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gattgagact acctcattca taagcacttg taagagaaga aaataagaaa gtaaaatgag 120
taaaaatect cccataagtt agatgagaca acttttataa gagttaagta cataagttga 180
tccaaacagg gtttttagggg aacttcaaat aggetcaaca aaactaaatg caacagctca 240
caaaaagcac caatgtagag ataataatgg aagcgcctct caccagaaca tgtagagata 300
ataatgtaca atgcacaaac aacaccaaga aacctgcaat taaaaaacat caaaacccaa 360
ttgattctaa agaaatcgga taaaagttag accatcaata aaatttttaa aaagggaagc 410
aaaagtcaaa acttttccat t 441

<210> 16317

<211> 400

<212> DNA

<213> Glycine max

<400> 16317

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gcagaacaat tatgaccttt ccagcaacag atacaacctt ggaaggagga atcaccccaa 120

cctcagatgg tctagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180
 tggcccaagc agaccataca ttctccacc aatccaacaa cagcaacaac ccagaaaaca 240
 accaapagtt gaggcctc cacaacctc cctogaagaa ctgttgaggc aaatgactat 300
 gaaagacatg aggtttcagc agagaccag agctcatt caatctta ccaatcagat 360
 aggaatctg gttaccaa agaatcaaa atagtcctag 420

<210> 16318
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 16318
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 agctcattta caataattta atgtagtcca aaatttaaac acatgatttg agattttaga 120
 aatgatatta atctgtattt agtaatgaat atcatgtttc gtaactatat tagctcttat 180
 atttcattat tatattttct attattcctt tgaaacaatt tatacttcaa tgttggtctg 240
 agactctcca aatctatttg tcttgcaata gttcaactat ttcatttgaa ctggattggc 300
 gtagttggta tgaaattggc ttacctgaat tctttacaaa taaagtagaa aatttatata 360
 taaattgttg gatggatttt gttggacaat tgtgctataa gtagtacata tacatgatca 420
 aacaaaacat gataa 435

<210> 16319
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 16319
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 gactctgcta tcttcaatcg actttttgtg gagcgggcat acaagtatcg cctgtttaag 120
 gtgggtggaat ttgaacttcc ggggcagcag tgtgtggttt acttggatct gaagcgggag 180
 agtgcacca atttgttccc atctggccga gtataattcc aggcattcca tttaggtgga 240
 caagggtttt tcttatcagc acattgcaac atggacccaa agagctcttt ccatgcttt 300
 ggctgtttt taggaatgca ggaaaagggc tcagttagct ttgccttga ctatgagttt 360

getgctaggt caaggccaac agaggaattt gttagsaagt acacatgcaa ttatgtattc 400
ac 412

<210> 16820
<211> 359
<212> DNA
<213> Glycine max

<400> 16820

tagcttatgc ttgaaaaaa gtctaagtga gtctacttg tatgtcaaga agagggatgt 40
tggatagtc attgtttct tgtatgtga tgaactact atgacaagaa gtccaagga 120
gttgattgaa gagttaaaag gaggaagaa agaagccttt gaaatgactg atcttgaaa 180
aatgtctctt ttccttggtg tgcaggtgca acaagataga ggtgaagtc ttgtaagtca 240
agaaaaatat gcaaaggaaa ttcttagaaa gtccaagatg gaggaatgca agccaattgc 300
aacgccaatg aatcataagg agaaattcag caatgaagat ggagctgata acgttgatga 360
aaaactgtac aaaagcttaa tatgatgtc 389

<210> 16821
<211> 411
<212> DNA
<213> Glycine max

<400> 16821

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ggcatcattt ctggctctaa actgttgaga gtgggaaaac atattctcaa ctaaattct 120
ggcttcagca ggggtcatgt ctccaagggc tccacactg gcagcatctc tcatactct 180
ctccatgta ctgagtcctt cataaaaaa ttcgagaaga agctgcttag aaatctagtg 240
gtgagggcaa ctggcgata gttttttaa tetctccag tattcatata ggctctctcc 300
actaagatgc ctatgccta aaatctctt tctaattggt gtggctctgg aagtatggaa 360
aatttttct taagaatact ctcttgaggt catccagct cgtgatggac c 411

<210> 16822
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16822

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 ttcagatcat ctcgtgttgc caacaattcc aagaaagaaa cgttaaggtg taacttccat 120
 tttcttttga aaataattct aadactctac aaataaaggg accaataagg tttcttctgt 180
 ttgtgttgtg gaggaaattat ttgaagaggg ttctgcaatg cttacagaga ggttaactggg 240
 accataactg cttaaatttat atttgcattg tgtcatttga agtttaattg gtcaccatca 300
 ttgtggaaag agagaaaaaa tgantccttt ttcaccaatc atctatcttt gattctntaa 360
 atttoggact taaaat 376

<210> 16823
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16823

gtaggcctag gatcttcttc atcaatggat tcttttgcct cttggaagat gtatggcagc 60
 gtaatggaga aggaagagag agaggagacg ccacttcaag gagaagatga gtctagaaga 120
 agctcaccac cataggaggg catgaataag agcttggagg aagaagaaga tgaatgaagg 180
 gagaggaaga gaagagcagc aaattttgtg ctctaaaaga gctataaaat ctgaagttta 240
 attttcaaat gatcaaagtt gaaaaaatgc acacacatgg tctctattta tagcctaagt 300
 gtcacacaaa attggatgga aatttgaatt tctattcata ttctacttga atttgaaatt 360
 aaatntgtgg agccaaaatt tctaatta tgattagtga atttttagcta tggttcagcc 420
 cactaatcca agatcaagtc caagaatctc cacta 485

<210> 16824
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16824

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oegagtaaaa tggtattgtc gctcgacttt gctacgagct tcggttttaa aattcgagcg 120
 tcaagatata ttaogggact caatcagact tccgagtga atgttattgt cgttogaatt 180
 tgcacgagc ttcggtttta aaattcgagc gtctcgatat attacgggac tcaataggac 240
 ttcacagtga aatggtattg tcgttcgact ttgctacgag ctctcgattt aaaattcgag 300
 ctcaacata tattaacdda ctcaatcaga ctctcgagtg aaattttatt ggcctcgaa 360
 ttgctacga gcttcggttt aaatttcgag cgtctcgata ta 420

<210> 16825
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 16825
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 tgaactctga agtcgatttg agtccctgca tatatcgaga cgtcgaaat ttaatacaga 120
 agctcggoga aaattaaaag acaataaactt tgtactcgga tgcgagattg agtgcggtaa 180
 catatcgaga cgtcgaaat ttaaaactga agctcgagaa aattogaacg acaataaactt 240
 ttaactcgga agtcagaatg agtcccgtaa tatatcgaa cgtcgaat taaaacagat 300
 gctcgggaa attcttacac aataaacttt cactcgaagt gcgattgagt ccgcaatat 360
 atoga 420

<210> 16826
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 16826
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 ctggttgaga agcatgccag aaataccgaa gtaattatat ggcctcag ggtctatata 120
 tcagtttgaa ggagaagtaa gcttttttca tggcactgct ctttatgttt tttctcttgg 180
 ctttgagaaa atactaagta ttgaattct tcagaggcaa gatccttgaa gtactgaaaa 240
 actccacaga aaagagtatt caagttattg ttgcgactga ttgtgagngt atattaggac 300
 ttggagatct tgggtgcgaa gtaaaatata ggttagtct cctatatctg cttacacac 360

agagacatta gagtaacata attttt

336

<210> 16827

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<224> 16827

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agaaaagatt ttggtctagt gataagcact tgattccaag tgtttcaca ataaatgaca 120

agagtttcat aagtcacaatt tcatgatcaa gtaaaaggct tacagtttcc ccatttgttg 180

taatgatggt gacatttttg ccattgatit gtgtcaccct tccatcaatc catgcacct 240

caggatcctc aacccaaaac tgtgatccaa cgatgatggt cacaggtggt ccttgaacca 300

atcacacaaa ggcacagaaa agtggttactg ttaacacatg atctgacagc aaaaatgttg 360

gaaggtacca acaacaacca acaaacagcg cagagaagac tctt 404

<210> 16828

<211> 401

<212> DNA

<213> Glycine max

<400> 16828

agcttgcacc atatgctatc gacaataaca ttccactcgg aagtcgcatt gagtcccgta 60

atatatcgag acactcgaaa tttaaaaaccg aagctcgcgt cagacgcata ccacaataac 120

atttccactc gaagtcggat tgagtcccgt aatatatcga gacgctcgaa atttaaaacc 180

gaagctcgta gcaaatctca acgacaataa catttccact cgaagtcoga ttgagtcccg 240

taatatatcg agagctcag aatttaaaac cgaagctcgc agcaaatgct aacgacaata 300

acatttccact cgaagttcgc atggagtcgc gtaatatatc gagagctcgc aaattaaaac 360

cgaagctcgc agacatgct aacgacaata acatttccact c 401

<210> 16829

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16829

gagcgtctcg atatgttaag ggactctctc ggacttcoga gtgaattggt attgtcattc 60
gaatttgota ctagcttcgg ttttaaatct ctagcgtctc gatttattag gactcaatcg 120
gacttcggag taaaagta tggcgatcg atctgtctac gatcttcygt ttgaaatttc 180
gagcgtctca ttaggttaag gaaatctc gaaatctc gaaatctc atctctgt 240
gaaattgota ctagcttcoga ttttaaatct ctagcgtctc atatgtctac aggaatcaat 300
cgaatttcog atgtgacaagt tattgtctgt cgaatttcgt accagctctc attntaaatt 360
tcgagcgtct ctagatatta cgcgactcac tgggaatttc gagtgaagaag ttatt 415

<410> 16830

<411> 421

<412> DNA

<413> Glycine max

<42> unsure at all n locations

<400> 16830

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tcaagaaatt ntgcgtttct tgattcgaca accctagtgc tatgtgatgg acaatagaat 120
ctataccctt tggactttnt agcatatcca atgaaatacc cactaatagt ccttgggtct 180
agtttcttct ctgttggtt ataaactctc acttcagatg ggaatcccca agcgcataa 240
tgtogcanac tgggtttcca acctttgaat aactagaaag gtgtctttta gacagccttg 300
gttggaaccc ggtttaatat atatacaacc gtctttaatg cttcaatcca caagaattga 360
ggaagtnttt tattacttct cactacttnt atcatgtcca ttaaagttcg gtttcttctt 420
t 421

<410> 16831

<411> 397

<412> DNA

<413> Glycine max

<400> 16831

tgagaaccat aggcgggtgt ctatgggtcc ttgatatta tgaacaatcc actttgcata 60
cttgadagga gtaactatta cagtctccat gtaactaact atgactccac cagcatataa 120
aaggtctagt ctgtgtgaca tcatatcgta aactaccac caaactcttg aactttgcat 180

catcacactt tectgcttga tcgaactttg ataacttatt tctgcaactca atcgggtgac 240
 caattggctt gcaagcatcc atcttgaatc tattgagcat ctgggtgtgtg acatagccct 300
 ttcacactta cgagatggca aagtggctct gtgagtgggc gatgaagatg gtgagagctc 360
 ttttgaaga ttttgaagtg tcttacttc tttgaat

<210> 16832
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16832

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 ctattttgaa tcttttagtt cctgaatgta caaccttcac attgttactc gtccccgtat 120
 tttttttctg caaaaaagaa aattaatctg aaacaattca ggcctgaattg ttatcgttat 180
 tattaactga accataagga ataacagcta aacaagtaat ttaaaatgta acttttaaatt 240
 tatgtgggtat ttttttaatt acaattttac ttcaatatct aattttgtta atctacttag 300
 gtgcgttggtt aaatataaat atgaatttaa aggtgatcta ctgataatat aaagtaacttg 360
 ctatccacaa attatgatac ctatcattnt caattntaac ttaattntat aaatattaat 420
 aaatgtataa taa 433

<210> 16833
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16833

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 aagccctttg tgatgcaaac tgggcaccaa atgttgatca ctgaagggtg atttcaagtt 120
 ttgccatata ttggggccc taccatatat cttgggtggac ctgcaagatc aagtgcacaa 180
 gcaaaatata gtagtttggc ataaactact atagaattat cctggattga gaccatgttt 240
 aatgagttgt aagtttccc caacacactc attgtattat gtgacgaaca aagtgttgtt 300
 gctcttcccc actaaagtta gttattgaca actgttgaca cctaaactcaa tagatttgta 360

acacaaaaat tagtacccta agaataaaaag aatatnttaa tntggatatt gtccaatgaa 420
agagtaaaat atag 434

<210> 16834
<211> 401
<212> DNA
<213> Glycine max

<400> 16834
agttttatat ttaaatctcg agcgtctcaa tagattacgg gactcaatca gacatccgag 40
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatcgtctcg 120
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt cgaatttgcg 180
gagagcttca aatccaatt tcgagcgtct cgatgtttta tgggacttaa tcagacatcc 240
gagtaaaaaag ttattgcgtt ttgaatcgc tcgagagcttc aacattcaat ttogagcctc 300
tcgatatatt acgggactca atcagacatc cgagtataaa gttatcgtcg ttgcaatttg 360
gtcagagctt caacattcaa ttggagcgtt atacatatat t 401

<210> 16835
<211> 379
<212> DNA
<213> Glycine max

<400> 16835
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tccataggaa agacattctt aaattcctgc aataaggggt gaacactagg agaaatagaa 120
atagtaaaat cattagaatt atgagttaga attttactgt ctttgcaata ctgtagattg 180
agtggttcat gaggaggtaa catttctctc acttcaactcg cctctgcaaa ataattaaat 240
ttctctctat gtgtatcaat ctttctctcg gggtatcac tctttttcat attccttttg 300
ggtgctctac tattatcttt cctctgggtt cctctttctc tcattctgat ttggctatca 360
cacactctc taggggata 379

<210> 16836
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16836

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 taaagaattc atttggatc ctgagatga gtagcattc gagctccat gtagcaattg 120
 atgattccac tggcatataa aatgtctagt ttgttcacac tcaatctata aactaccac 180
 taaattctg aatttggag cctccacctt tctgtcttcg tggaaatttg ataactaat 240
 tttgcaactc atgggtgttc caattggctt gcaagtatcc atcttgaatt tattgagcat 300
 ttgggtgtgtg acatagccct ttccactta ggagatggca aagtgtcttt gtgagtgggt 360
 gatgttgatg gngtgagctc ttgtgaaca tgttgaggtg tcttatcttc ttcaagt 417

<210> 16837
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16837

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 tcccacaaaac ataattgtat acctctccaa agttaacttt aagcacaagg catgatttct 120
 tctttctctt agcatcatca accacctcat ttgcaatggc tacactatct aacatatttt 180
 gctctcccat aaaggcaatt tgcttttcac caataattnt agggagaacc actcttagtc 240
 tctttgctaa aaccttagac aaaattttat acaagcaccg gattaaggat ataggcctaa 300
 agttattaag gcttgttggg tcatctttt ttgagatgag aatgataaac gaaggattnt 360
 ctctttcttg aattgtcca ttttccaaa actcttgcaa catatttata aaatccacct 420
 tcaatgtagc ccaacatttc ttg 443

<210> 16838
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16838

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cctagtagac aaatatttct atcttacctt catgtagaca tctgtatctg gatcaggtgt 120
 aatatttgc tttttttctt ttctgaacac ctctgctagc aaatctgcag aatgtgaaat 180
 aattttagtt aaaacttgat ttttcatatg aattttgggt cgatttccaa attgcagctc 240
 tctgggtta ttttaaggag gctcaactcc ttggactcat gctgagaagg ccagggtttt 300
 ttttaactgt atttctccaa tttgaatatt atttttactt ttttaactat tttttttt 360
 ttttttttaa gtttcttttc cagtgaactg atcaagaagg caaacctaat tagctacaaa 420
 tttcaataatg gaaaatatga gcacaaacat cat 483

<210> 16839
 <211> 398
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 16839

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 tatatatcta tatatctata gatagatata tagatataga tatatagata tagatcatac 120
 aatgaagtac cgcacgagtg ggtatatagg aatccaaatc tgcogaatca ctcatgttat 180
 gatctttctac atcttaggtc ttcccggtcc ttcatctggc ttatgtttct catgtagcat 240
 ttgactgaa tgaactctatg aaattacgtc gctacttcca catggtagcg gtaacgtatg 300
 agacatctct atttttcccg gngggaatcc ttagaattac cacagcttag ctntcaattc 360
 gctcttgacc atcatatgaa atgtgaataa cccgtctc 398

<210> 16840
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 16840

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 ctcaaaaaaa aaagcagcgg attcagtagc acgggttgca ataagagctc ggtgtcatta 120
 tttaataaaa aagtggctcg ggggtatgtt aacgaatcgg tatactacag aaacacgact 180
 tcaaaaattc agggacttga gaatgcacaa aaagacgggg agactcaata gtttttcaaa 240
 aagagatgct gctatattga agacacattt agctcatttg gaaacatata ttggcggcat 300

taaatatatg aagggggttac ctgatattga ataatcgctg atcaacaaga agaatatatg 360
 gctcttcagag aatgtataac ttgggaaatt ccaacaattc gttcaatcga taaaaattgt 420
 gacccggacc tggccgatat ttcaattcca gctaatgatg a 461

<211> 16841
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16841

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 aatagggttg ccctcttcac cataccaaaa tctctctttt gatatggcaa aaaaaatcct 120
 tcatgaggag taacaaggaa aaatactcca gagtcaatta tccatatata ataattcagat 180
 gcaatattaa aataattttc attacggata aaaaaaacat tctcatcatt taatgacaga 240
 gaagttagtg ttccaccttt attctctctc ttggggtcaa ttcaattaga atggatagtt 300
 ccagtctctt gatctctctt caagaatcta cctcaaaact tcttatgggc cgaactttccg 360
 caatagtagc aactaaagcc ttgnggtga gacttggatc tttcttgtga 410

<210> 16842
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16842

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 tctttcagct actacatcca tgctagggtga ccacgacatg ggttactatg ggaagatttc 180
 acattctctt aggtacctag caaaaggccc cggacggtgt tcaattgaac cgtcatatct 240
 gccatagtat tcaccaccac ggtcatatct aacactcttg attcttttgt tgagttgatt 300
 ttcaacttca actntaaatg ttgtgaacac atccagagat tgttatattt catgtataag 360
 aaacaagtat gccatcttgg agtaattgtc tatgaatgat aaaaaatatt gttgaccatt 420
 ccattg 461

<210> 16843
 <211> 424
 <212> DNA
 <213> Glycine max

<230> insure at all n locations
 <231> 16843

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 tgggttgggt ttgtgtctct ctgttgacca ccataatagac ccttngccctt ccattgcagca 120
 acctatagca attgagcagc ctgaagctta tcttgcaaat atttacaata gacctcttca 180
 acctagtag caaaatcaac cacagcagaa caattatgac ctctccagca acagatacaa 240
 ccttggtatgg aggaatcaac ctaattctag atggtccagc cctcagcaac atcaacagca 300
 cctgtctctt tccctccaaa atgtctcttg cccaagcaga ccatacatc ctccaccaat 360
 ccaacaaacag caacaacccc agaaacagcc aacagttgag gcccttgac aaccttccct 420
 cyaa 484

<210> 16844
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 16844

tgaaggcaaa ctggatgcgt tggtaactt ggtaacccat ctggccttga atcagaaatc 60
 tgtacctgtc gcaagggttt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120
 ccttccatg cagcaacctg gagcaattga ccagcctgaa gcttatgtct caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgaccttcc 240
 cagcaacaga tacaacctg gatggagya tcaacctaac ctccagatggc ccagccctca 300
 gcaacaacaa caacagcctg ctcttctctt ccaaaatgct gctggcccaa gtagaccata 360
 ccttctctca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
 tccacaacct tccctcga 438

<210> 16845
 <211> 393
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16845

agcttgagga gtctgcttca acccatagaa atccttgagt aacttggtt gggaagtcca 60
atattgcctg ctataattca tctgttcaa cttataaaat tgttggacaa cttcaattaa 120
gtatttga ttttaaggaa aaatctaaat gctatgag ccttacaact cactcttata 180
tattgcttat tttctacat tgggtgagtg gggatgttga aaagtgcac atcgtttgcc 240
ttaaattctga ggggtcaact tatatactta ttgggaaact ttaacttaaga ctaatcgatg 300
ttaatgaatct tatgatgaaa cctaacaact tgcaacgaag agacttgctg gttgctactt 360
gtttcaaaagc ttgggtattt gtgcatacaa acc 393

<210> 16846

<211> 413

<212> DNA

<213> Glycine max

<400> 16846

agtgggagtt gttggaggaa gtccagatga accagttgta gaagattttg atctagataa 60
tttaattttg gtggaaacttg gtgatgatgc acaatttgag gaacaccttg atgatgatgg 120
agacggtgat gaaactgatg atatccatga aaatgatcct attagagaat tagacatggt 180
tcttgacgta gctcctatgt ggagcttgta ggccttgat attcttcac c aatggagtc 240
tttgccttctt gaagatgaat gacagcagaa tggagaagga agatgattgg agatgccact 300
tcaaggagaa gatgaatcaa gaagaagctc accaccatag gaagccatgg ataagagctt 360
gaaggtttga gaaaatgagt ggagggagag ggagagaaaag agcatgaaat ttt 413

<210> 16847

<211> 410

<212> DNA

<213> Glycine max

<400> 16847

agcttattct tcaaacctat tgaaacgata gatcctgaag aaaatggggg gauggggggt 60
agcattadag aatagaataa caaaattact ttgatttaaa tcttggcaac cagaagatag 120
cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180

cactttttaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240
 aagpaaatag gggtgatcca ataaaaaaca sigpaaaaag aacttgtgaa taaaatataa 300
 cttttggaaa cctaaggaaa ccagtgaaca gataaacaac atggpaaata cactcacaag 360
 ttaaaatat ttaagagaca aaccaggata aatgcataac tttagaatga 41

<11> 16848
 <11> 412
 <12> DNA
 <13> Glycine max

<23> unsure at all n locations
 <40> 16848

agcttgatt cgattacaca cataactgtaa togattacca gaggagattt ccagaaaata 60
 tctcagcag ccacatcttt ccaattgggt cttyaatggc catcaaaggc ctatatatat 120
 gtgaattgag agaccttggt atcatgtggg ccttccatac cgggcytcaa cttagactggg 180
 cacacttagt cggatattgc atgcataagg catggcgatt aaatgggtcca ttgccatata 240
 cacaccttgt cactctcttt ctccgccatt ttcaaattct tcttcattct gaaccttatg 300
 tcccaatcaa gagatccttt ttaattgggt gctgctgtga ttgcctcctt tggttaccgc 360
 anagagcatg atggctcttg ngtcanaatg ggtgctcaac ccgctgatga tg 412

<10> 16849
 <11> 335
 <12> DNA
 <13> Glycine max

<40> 16849

actagagaga attccatgct accttactac taacttgatg tacaacatca cttagcttttc 60
 cattgtatac tccatattca ctgcgataaa atgagcagat ttgggtgagtc catctactat 120
 gacccacaca gtatcatgcc cactactagt cttgggtaaa ctagatadaa aatccataga 180
 tatgtctctc catttgcat ccggaatctt caatggctgc aattctcacy atgggcgctg 240
 gageaaacct aagcctttga catgtcaaca tcttgcatt attcggcaca tcttattcat 300
 ccttccacac aaaactttct taatcttga catat 335

<21> 16850

<211> 346
 <212> DNA
 <213> Glycine max

 <401> 16850

 agctgggttt aatccacccg tggccattct aaaatcttct ttatccttat cagtgccctc 6
 tttatgttat atagctcctt caataatatt tcaatcctt cttatgatct ttaccccaac 120
 agctttccct ttatgtgtct agtcactctt gtaaccattc attgtgtcaa actcaactgc 180
 aaagatgttg tttagcctat tcccatcatt ggtggagtta acaaggccaa gataatggcc 240
 agctcaacc ccaggaaact gtgttgaggg tgcctatggtg aaggcaaygc caaagccacc 300
 agaaccagaa cttgtggaca caattgagaa aacaaaattg gtgctg 346

<210> 16851
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16851

cacatactgt aatcgattac cagagatgnt ttccagatta tattctcaat attcacatct 60
 ttgtacttga ttcttgaatg gctgtcaaag gccatatat gtgtgacttg ngacacgaat 120
 ttgctaagag ttcttcacaa caaaaaggtc ttatcctctt aaaaagcaaa tcatattatc 180
 ctcttcacaa ttcttggcc aaattacttg tgattcaata aggaattatt tgagtgtca 240
 aattgttcaa tcaatctctt taaagagaga tttctctctt tctctctctt cattctgaan 300
 agggattaag agaccgaggg tctcttgttg tgaaagaatt ctaaacacaa aggaagggtt 360
 gtcttgtgt gcttagaact tgtaaaagga atttacaaga tagtggaact ctca 414

<210> 16852
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16852

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 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcacc ccatgacaaa aaaaagatga aaatacaaaa gaaaagtcct tactacagag 130
 actactcaaa atgccccgaa atacaaggct aaaacccctat actactagaa tggcccaatat 240
 acaaggccca aacgaaggat aaacctattc taatatattac aaagataago gggctcatac 300
 ttaggcatt tgcacaaat atacctaaag gctcatgaga accctagggc cttccctagg 420
 atctctagcc caatctactt ggagctctct a 481

<210> 16353
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16353

aagcttcaca ttgtcatgtg ctctgcatta ttgtagcctg gttatadaga atcttgtcta 60
 taaaagtdtgg ttatcgataa ctgcctcttg cttcttcttc catgctatat gttagcaaagt 120
 cattgatcca gtcaagcttg atgagttgga aaatgaggcc gcaaatatac tgtgccagtt 180
 ggagatgtat tttccccccg ctttctttga catcatgatt cacttgattg tgcattctgt 240
 cagagaaatc aaatgttgag gtcttggtta tctactgtgg atgtaccggg ttgagcgata 300
 catgaagatc ttaaaagggt atacgaagaa tctatatcgt tcagaagcat ctattgttga 360
 gaggtacatt gcagaataag ccattgaatt ttgttcagaa tacttagaga aagctaaacc 420
 481

<210> 16854
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16854

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 tttcttgatg gtaataagtt aatcgatat agtatgtgtc tgttttggac ttttggttag 120
 taatgaattt tttttggagc tgagtnagtg gttgtttctt tgagggttga acctgtgac 180
 tttagtaaat taatcaagct tgtcaccact aaaccaatcc tagtggcttg aagtagtgg 240
 tatgtagtta gcgataatgt acaatccctt aaatagtata tcttctgtc atgcagtcgt 300
 gaggttacc atcgtgtgaa gtctgtatct atggcaatgt tcaagtcaca agaagttga 360

gctcttcaaa atgggggtaa ccaggtacaa tgggtggatta tctnttctat atttgyaat 419

<210> 16355
 <211> 423
 <212> DNA
 <213> Glycine max

LOCUS 16355
 16355

actttctatt ctntatataa gaatgaagct ctgataccag ttgttagaga agtgggctca 60
 gatattcttaa gtaggggggt tgaattaaga tattgcaaac tatttcccca attaaaaatt 120
 ctatttcaat tccaatgcac gttagaagtt cccctaaaaa tgaactttta aataatgatt 180
 caaatagaac aatctgaata caaatataaa tcaataataa ataaacaagt ttaaggggaag 240
 aaaaagtgcg aactcagatt tatactgggt cggccacacc cttgtgccta cgtccagtcg 300
 ctaagcaacc apcttgaaag tccactatc ttgtaaaac cttttacaag ttctgaacac 360
 acaaggacaa tcttctcttt gtgttcagat ttcattacaa caagagaccc tgggtctctc 420
 aatccctt 423

<210> 16356
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 16356

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 atctgcacct gtcgccagac tctgtgattt atgtctctct gcgcaccacc acacagacct 120
 ttgcctctct gtagcaacaat ctgaagcaat tgaacagcct gaagcttatg ctgcatacat 180
 ctacaatata cctctcacc caccgcagca aaatcagcca caatgaaaca attatgacct 240
 ctccagcaac agttacaatc ccgggtggag gaatcatccc aaccttagat ggtcgaatcc 300
 ttccacaacag tagcaacaag aaccttattt tcaaaatggt gcttgttagaa gcaaaagcttc 360
 atgatgaatc cagattgatt caaagatggt ctgatgataa caaagatgaa tgacaaaagc 420
 tcaaggtcaa tcaagaatg ag 442

<210> 16357

<211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16357

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 aaattttat ac gatttat atgcaagtaa aatcattga cttcaatagg tttggg uca 120
 appaaaggtt ggggaggcta caattgagag ggagaatcct ttggtgaatg ctattattgt 180
 ggccttagga ttggtggtca caacggatct tgaagtgac aggggtttggg ttgggggttaa 240
 taaaatgga atgtttaata gatttccaaa aattggatag gaagtgttta caatanagca 300
 catcaccata tatgtttctaa taagttatga atatatagta atattttaat aaggagttat 360
 ttttccaatt atgtttcttg attgcaaaaa atattttata cttttaatta tgcctt 416

<210> 16353
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16353

 agcttgatat actttcaaaa ggtgtagatt gtgagtgcac ttgacctccc acaaagcaaa 60
 tgcaaaagcac agcaatgtgg gatcagtagc cccatcctta tagctaccat catcaatcat 120
 gctctccccc aacaaagctg caattatata taaaagcttc aacgtaagat tgattttgac 180
 aattttctaag aactaaagac aaaaactgaa ttatgtgaac atgttaaccc agacaaatca 240
 ataaaacaggt ggcacttaca actgaagatc cttgatcttg gagagcaggg atttagttgc 300
 tcccacaatg tgctttntaa acagcttcag ttctctcttg tcaagctttt gacaagaaac 360
 tgccttcttg caaaagcagg ttgctctac ctacaaagat aatat 405

<210> 16359
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16359

 ctctttctgt ccttgctctc ttaagaatga aacaagttta ggtttgcat tgaaaaattt 60

ttactcaatc cattttctgtt agtaatggaa aaagtttgtt acaatctatc tatctgtttc 120
 accttttttt ttacttgtat acatgtaaaa ttttaaatca catcaacttca aatatgttaa 180
 attagctcat taaaaatata atttatttgt aagtaaagtc cagattgatt atttactctt 240
 tttcccaaat ttttaattga aattcagttt taaaagaaa aaaagggttat tgtcaactgac 300
 tttttata aaataattc catccaaat taaatttta atttataac ttttaatttc 360
 ntthtatag ccttttaact ttaacttgaa tatatactat agtatcttct tttcagcaag 420
 agataatatg taggaataaa tacgtcaatg t 480

<210> 16860
 <211> 452
 <212> DNA
 <213> Glycine max

<230> unsure at all n locations
 <400> 16860

tataatgatat aaactcttat ccttatgctt tcacaagtta tttttcaaag gctattggaa 60
 tttattttat catctattat tcaatgtcca acacattatt attaaacaaa catgaaattg 120
 ttggaaaaaa ccagtactta tgtagtgagt gtctttacac gtacaattaa aaaagacata 180
 actaagttac actaatgttt tatattctgt ttgttaacat ccaaactcatt ttgcttgcac 240
 gtgaaagcat ctccaagata aatatttgcct gatgcaatcc tccctaggaa gggaccagtc 300
 actagagcca tgagcaagag gctccaagag gattangcta gagttgctga agaatgcctt 360
 aagattctca tgaaccacagg gtagatntct gagcccatgg gcccaagggtt agtccaatta 420
 tttttgtaca tattagacta gaatgtcatt at 480

<210> 16861
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 16861

agcttgggtt ttcttattcg atattcttaa ttggcaaaaat tgaatgttat tggagttgca 60
 ctgtttatca tgcctgtctt gtaattaaaa atatttaact tctgcatttt tttttatcca 120
 cagaactttt acatgatagg aagggacaag agcaggacat attgdaaag actaaagatt 180

gacccgtcttg atcctttccga gctaaatttg cgtgaagatt ccaccacata tacagaaagt 240
 gaatgtcttg atcttttgag acggatacat gagggtaaca agtccacagg tggactaaaa 300
 cctgctacaa cttgttatgg aattgttagt atgtaaatcc ataattgtctt agctacctgc 360
 tcttccaaa attatgagtt actgtcttga tatactatt 420

<210> 16362
 <211> F
 <212> DNA
 <213> Glycine max

<400> 16362

agctttgctt gtaattgtca agtgtatgga ccacgttgta gccaaaggtgc tcctcgataa 60
 tggttccagt ttaaaagtga tgcacaagag cactttggag aaattacctt tcaatgcttc 120
 ccacctaag ccagtttcca tgggtgtttcg tgccttcaac gacacccgct gagaggttag 180
 gtagagagatt gacctccctg tacagatagg cctccacacc tgtcaagtta ccttccaaat 240
 aatgggcatt aacccccctt acagctgctt gttggggcgc ccgtggatcc actcgggtggg 300
 agttgttccc tctacactcc accaaaagtt gaaattcgta gtggaagggc atctggctcat 360
 cgtatcagga gaggaagaca tcttggttaag ctgccatcc tctatgcctt atgtgga 420

<210> 16363
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16363

taccacccgt atcagcgatt gaagaaggtt ttaattgggtt tcaggaaaaat gagagtgcgt 60
 ctaaacccatt agctaggaaa gaagtttatg atcaggttaa ggacatcgta actatctttg 120
 ggaagaccca aaagaagcca tcatctgaga caaacatacg gaagaaaatg tcaatattct 180
 tttatcttcc atattggctc gatcttgatg ttagacattg tatagacatc atgcatgttg 240
 aaaaaaatgt gtgtgatagt ttaattgaca ctcttcttaa cattaatiga cactctctct 300
 aacattatcc gaatgtcttc attcttcagg ggcatttgc agcaatagta accacaaaaa 360
 aaaaactatg ttctctgata aaaaaataga aatcaaacag caatttggtt gctttatttt 420
 tttccatcaa tca 480

<210> 16864
 <211> 425
 <212> DNA
 <213> Glycine max

<210> 16864

tataaataa aaaaaag aaaaatgata atgaagagc atataatgt tcccttga
 agtataatg atattcttcc aaggaaggat tttttagatg atatttcaga ttcttagaa 120
 gataacata ttcatggaaa tgactctaaa gaaaaagacg aaggaagcaa tgaggattct 180
 aaagataatg gggctagagg aaataatgaa ctccaagag aatggaaagc ctcaagagat 240
 catccctctg acaacattat tggatgata tcaaaagggg taacaactag acattctctt 300
 aaagaattat gcaataatat ggtttttgta tctatgattg aacctacaaa tataaaagaa 360
 ggcatagtag atgataactg gataattgcc atgcaagaag aactgatata aattgaagaa 420
 ataatt 485

<210> 16865
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 16865

agcttgaatc tctacccta tttctgacag ccagtgggtg agtccagtc aagtgggtcc 60
 taagaagata ggcctcacag tgatcaagaa tgaaaaggat gagcttctcc ccacaagagt 120
 gcagaacagt tggcgagctt gcattgatta taggaggctg aattaggtaa ccagaaaaga 180
 tcaatttccc ttgcctttca ttgatcaaat gcttgagcgc ttggcaggta agtctcatta 240
 ctgccttctt gatgggtttt ctgggttatt acaaattcat attgctcttg aggatctaga 300
 aaagaccaca ttacactgtc cttttggcac ttttgctat atgaggatgc ctttagcct 360
 atgcaatgcc ctgggtact ccagcgggtg tatgcttagc attttcagtg actttttaga 420
 gagtgcata gaggtgggta tggatg 446

<210> 16866
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 16866

gtctattatg ttattgttct ttcaaagtat gaacaaacac tatgattggt catgatagag 60
pattacagca tataatatat tattacattt ctgaaacgac atacaacttg tgggtgtaag 120
atggttgcat agccaaggcg atcctttgct ttgagcaat caaatcttc gttgcaagat 180
tcaattctta tcttgaagg atggaattga gtagcttca tcttatatgg gcttgaagac 240
ttatatatgc attccaacca atgtgcactg ggcattgata caaaagtgtt ggaattttac 300
ccttggccta taagcaacat gaattagatt acaaagaaat ggcattgaca at 362

<210> 16367

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16367

ctataatact cagcttgagc caaagggaaa aagaacttag ttattcaatg tactctcctt 60
aatanagtgt gttcaatgca aagttaaccac tctattccat ccaaccttga ggattgataa 120
aacctattatg ataagtcttc attaaaattg ttcttgaata ttgcttccat ggtctttgaa 180
gataagtctt aacggggttt tgaaccggtc tcacatctga ggcagctgtg actcaagaat 240
tgccaattga aattccagtg ttttggtctg gatcagttct gccttgtgca ggcattggtg 300
tgactatggt gggagggttt cttgcaaggt gttgcaattc tgtaacacaa caacaacaac 360
atgctacagg agatttncat caacttccct gccacacgcy tttgggtaac aacaaaatga 420
taagtcgaact aatagccagg agattacatt acactttcac atgcacac 468

<210> 16868

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16868

agcttccccc ctgtgtcaat gggggcacc acgttcaaaa gtgacccccc ccccccgtaa 60
tttgttttaa aataaaacct ctccgttaa tagttttcaa aagcatcccc ctctgttaaa 120
tttgctctgg tgtgaagata gtctagtatt caagcataga tagcaccata atcatgtctg 180

agagaattct aaaaatctcg gctaattatta accaattttt atgtcaaaca accaattctga 240
 caattttcac aaatattaat cattttcatt aatgttaacc aatattattg gcaaatgaac 300
 aattgtgtga aaaattaaat ggattctata cattattaga tttatgattt ttgtttcttaa 360
 attaaaaata agactgttct cttaattata tttttttat ttttatgatt caaaataaat 420
 aaataaaaac ttaagaga 480

<210> 16869
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16869

agctnccaat gtattattat tctntaagca tgtctgtaac atgggtttgtg cagtgccttg 60
 aaacttcaga atggggccata tgctntcgaa gatatgataa agatgggtag gatgctggag 120
 aaggagcttct ttttcgagcc cgacctgct tnttcagtcg ttaacatcca ccacattaat 180
 ggccacacaa tactgatcat gaggggtgaag gcagctcttt cagtgaactgc atanangtat 240
 gtctattctt aacctgtgtt aagactaaat atcagctgat ggaaaataac caatcatatg 300
 gtcaattgtg a 311

<210> 16870
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16870

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 actactgcgc tctgcagtgg ttatatttcc cttttcaaaa gagacaatgt cgtggttgta 120
 ctgatcactt tgatcacctt tgctgaacca tyagagttaa aatgaagcct gtctcgataa 180
 taaagaaaat aattaaaac aatttgetta agtaggagta aatcagagta tatacattgc 240
 aattttagea atagaaaaga ggaatatgtc ttggaagtaa aaatggtaca agatgtctta 300
 ccacagattt ctaagttcaa ataatggga tcaataaac aagatgatgg aaaaattaat 360
 gaagatgtca cgc aaaggat acaagcggga tggataaaat agagaaagga gtcaacgggt 420

atcttgtaatc gccaagtcac taccaatatc anggcaagtt tatcgtacta ctatacg 477

<210> 16871
<211> 445
<212> DNA
<213> Glycine max

<235> sequence of all 3 locations
<400> 16871

agcttggatg ctatccatta tttntgtaag actatgtatt gcattcgaaa tatttggttt 60
aggtgccttt tttgtacac tcaaaattct attttgaagt agactaatgt aatgtatcat 120
gccccaatg aactacaaga ctganagtgt tgtgtttctat tagactggga tatgcgtttg 180
aaaattgttt tggggattgc tcgaggggtc ctttatatgc atgaagattc taggttgagg 240
attattgata gggacttcaa aacaagcaac attctactaa aattctgatt ggagaactat 300
acaaaaatta cccctaagg agttgtatct aacttttgc cttantttgt attgtcaca 360
ctttacataa tcataccaga caaatctctt attttgcctt catttcacat tnnctgtaat 420
gcaatgggta tatgtgtcca taata 445

<210> 16872
<211> 391
<212> DNA
<213> Glycine max

<400> 16872

caggttgagt tctgcttacc acccacagac tgaagggtcaa accgtgcgtt ctattcaatc 60
cttaaaagaa ctcttgagag cctgtgtgtt agagtagacg ggtacttggg atagtctctt 120
acccttgata gagtctacat acaacaatag ttttcactcc agtataggta tggcacctta 180
cgaggcattg tatgtagaa gatgtaagac acctctatgt tgggtagatt ccagttagag 240
cattgcctta cgactgagg tagttcacca taccattgaa aatgtcaagt tcatccaaga 300
taggatgaca gcagcccaaa gtatgcagaa cagctactat gatcagagaa gagaggatct 360
tgaatttgcct ataagtgate atgtattctt g 391

<210> 16873
<211> 444
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16873

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ctggtagagt tcttcttacc acccatagac tgagagnctt tcttgcgcct cattcaatcc 60
ctagaggacc tcttgagaga ctgctgtgta aaatctgagg ctgctgga tggctctta 120
ctctgcttcc cactacaaat aatagctt cca tcttaata agggctggaa ccttctgaag 180
ctctgtatgg taagagatgt aagacacctg tatgttgggt aaataccagt gagaacattg 240
tcttaggacc ctgagggtggt cagcaaatca ctggaaaagg caagctaatc taagaaagaa 300
tgagaacaa ccactgtacg ttgaagagct accatgatac gagaacgaatg gaccttgaat 360
ctctcgtagg ctgacctgta tctccgatag tcactacatc cactggggtg gtatggcatt 420
ctagctacac tagctcacc ctag 444
```

<210> 16374

<211> 412

<212> DNA

<213> Glycine max

<400> 16874

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ctcaactgaa ttacaaacat tccaattgat tccaaaatgg tgtattttat tacaatgata 60
ctgtaatcga ctaccagtgt gtttgaatgt tgaaattcat attcaattgc gaagagtcac 120
atcccttcac ataagtgtct tatgtaatcg attacaatga tttggcaatc gattaccagg 180
gatgtgtttt gaatacaaat cactagatgt aactcttcca atgggttctca agtctctcta 240
aaggetataa ctcctctatt ggccttcttg acctgacttg acgagtctat ataaccaaga 300
ccttaacttg ccttgtaaac acattgatta caatcttata tatcctttga atctctttga 360
acctctctct gaatgtcttc ctatcttctt ttgcacaaagc tttctaaagt tt 412
```

<210> 16375

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16875

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```

tgaaatgact ctgaatgac acaacttgat tgggtttgga gaacacacag accacaaaat 120
 catctctctg ttaagatcca acaacacttc aggccttcag atttatctta gagatggaaa 180
 ctggatgtca gtcacacacag atgacagatc ctttattatt aacgctgggtg atactcttca 240
 tgaacacat aaagatctt atgacagatc ataatgagt tcaatgaaga aattgctatt 300
 tctctctctc ctatgaacta cgtatctctc tggataagta taaaataata aaatataaaa 360
 tctctctctc aagt 420

<110> 16376
 <111> 435
 <112> DNA
 <113> Glycine max

<123> unsure at all n locations
 <130> 16876

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 aaaaagaact aaatgacag ccataagtat gtacctttga ttntttcttc aaattataat 120
 tatggcgaag tcaatcccc tgcaaatgag cgttcaata gattcttcat ttagttttaga 180
 acaatactca tcaattaccc tacccttagc actaaatgta gaacttgaaa ctactgttga 240
 tattggaata gctagtatgt caccgcctat ctttgataaa accttgtatt ttaggetatt 300
 gttctccac cactetaaca cactanaata agagttacta gtttcaggaa tataaacatt 360
 ctcttaaga taactctcta attctgagtt cactggaggg gtggettcac ttgcacgcac 420
 aatgttcatt atttg 435

<110> 16877
 <111> 392
 <112> DNA
 <113> Glycine max

<123> unsure at all n locations
 <130> 16877

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 aatcggtaac tctcgaaga gctgtggtt tatgtctctc tctgaccac cctacatacc 120
 ttgctcttc catgcagcaa cctggaacaa ttgagcagcc tgaagcttat ctgcacaaa 180
 ttacaaatag acctctcaa cctcagcaac aaaatcaac acagcagaa aattatgac 240

tctccagggg accatccgtt gttgggatgc gaccctcatt ngaccacttc gaggtacttg 300
gcacccatcg ttaggcaatt tgtgaagtgc catgacgtgc cgggaagtgc aagaaagcat 360
tgtagaacga tccgtgaagt tccggagcat gc 392

<210> 16378
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16378

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atgttcacaa tggatttatg ggatgtaatg aaaaaatatt ttttggcatt tcttgatgaa 120
ttacacataa atgggagact agataaagtg gtcagttagat cttttattgt tctgttaact 180
taaaaaagaa aacctaatgt ctatggggga taatatatcc ctgatagggt gtttgtataa 240
aatgttggca cagatgtttg ctaataagtt aaaatggggt attgatgatg ttatttcac 300
aaaccaatct acctttatat caggaggaa aatgctggat cgggtactca ttgtattga 360
ttggttcatg 370

<210> 16379
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16379

tcaagaatca agatcaagat caagattcan aattcaagat tcattattca agagaagact 60
taatcaagat aagtatgaaa ggactttca aaaactgagt agcacatgga tttttcacia 120
aacatgttta ccaaagagtt tttactctct ggtaatcgat taaccagatta ttgtaattga 180
ttaccaatag caaaatggat ttgaaaaagt ttccaaactg aatttacaac gttccaattg 240
atttcacaaa gttttaattg attacaatgt ttgggaatc gattaccagt gcctttgaac 300
gttgaaatc aaattcaaat ggaagagtc acatccttc acataaaagc ctgtgtaat 360
cgattacact gatttggtaa ttgattacca ggaattgtt ttggaataaa tcandaatg 420
taactctca aa 432

<210> 16880
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16880

atcctatcga cctcctcct tgaatcgaat gctcc gaag aataagggg cagggggg 60
 aacttatag aatagaataa cagaattact ctgatttaaa tccctggcaac cagaagatag 120
 cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180
 cttttttaaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240
 aagcanatag ggttgatcca ataaaaacaa ctgctaaaag aacttytgaa taaaaataa 300
 ctttgggaaa cctaaggaaa ccagtgaaca gataacaaca atggcaaata cactcacaag 360
 tcacaactat ccagagaca aaccaggaaa aatgcatacc tttagaatga cgaccatgaa 420
 ngcatttoga cagcttcaca ctatcacta 449

<210> 16881
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16881

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 ggattgagtt ttctgtcatg cgtactccac ctctcagtat ggagccatgc gtagtgattg 120
 cttagttcaa ttctccattc tcaacccctt ttctgcagcc ccatgaattg cgatttggtt 180
 catgtgtcct ccactttoga gtctggagcc atgcgtagtg attgcttagt gcaattctcc 240
 attctccacc ctttgctgga gcccatgaat tgcgtattcg ttcattgtgc ctccaccttc 300
 gagtttgaag ctctgcgtag tgatttctta gtgcaattct ccattctcaa gctttatcgg 360
 agccccatga attgagttat cgttcattgc tctccacctc tcgagttt 408

<210> 16882
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16382

```

atcagaggga tgcacactcta ctccaaattc ttgaaggata tgttttcaat gaaacataag   60
tatattcacc aagaaaacat tatagtggaa ggacattgta gtcttgggat tcaaaagatc  100
ctccaccca agcataaaga ccttgggagt ataactatct cttgttcaat tggagaagtc  140
ctcaggaa agactctat tgaatggga ggcagatcaa attcaatgtt gctctcctatg  180
tctagaatgt tgggagcgtt agagatcatg cccactagaa tgaactctac attggctgac  220
cgtctcatta ccagaccata tggagtaatt gcagatgtgc tggtaaaagg gaaacatctc  260
atcttcctgg tagacttctt ggtattggat atttgtgaat ataactgacat ccttgttaata  300
ttggga                                           346

```

<210> 16833
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16833

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agcttgcaca cttgtcttat tctatatgaa gggctctgat ttcttgagta gtttgtagaa   60
tggcttcccc tttttgggta gctttgggaa gaacctggac agacatgcta gcctttcatt  120
cagcttcagc ttctacaact cttggatgtt ggttgggttg cgcctgatca gtatggtagt  180
gcatttgttg nggttgggtt caatccocta gtgagtgate atgaagtcca ggaacatgcc  240
ctgtctacac caaacagtac atttaccatg gttgaggcac atgtcatatt agtgaagttt  300
ccacaagaat tcttcaggt cagtcacatg ttgggctatg ctccgagaca tgtctatgat  360
gtctgcaca tatacc                                           376

```

<210> 16834
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16834

```

ctccttctcg ggttcctgac ccagatagg taggtgaccc agaataagtt gtatgttgcc   60
ttttggatat tggctctggt agagccagta gaacctcttt ccttttctga ctggatcttc  120

```

ctcctctgcc ggaggaacta gacaccatag gaggcacggy gaattttctg taaaaattca 180
 cgggtgagat agtcaggtag agagttggaa gagcccttga tatatttat attaaaaatca 240
 aagacactta aaattgcttg ccattcttga aaaatctgtt ttgaggcaag gttttttaca 300
 tctttctgta naattgtctt ggctgatttg cagtcacccc ttactaaaaa tcttgattt 360
 aatgaatcag aatgaattt gaaatgaaat aaatcattg ctataattc tcttttgaa 420
 gtgaataact ttaattgtgc aggattccag tgttntgaag tatatgcaat ga 478

<210> 16835
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16835

agccctatan atttttatat ggcttgaaac aagcactgag gcagtggtag aagaagttta 60
 atgagtttat cagcaactca ggattcaaca gatgtgacat gaaccattgc tgcctatgta 120
 agaaatatac taatagttat gttatcctta tctgttatgt tgatgacatg ttgattgcag 180
 gatctagtat gacagaaatt aacaggttga agcaacagtt ggcagaaaac tttgaaatga 240
 aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaaac agatcagaaa 300
 gaattttgaa gttgtctcat gagaaatata tacacaaaagt tgettgcaca gttttacctt 360
 gaagattcta agaccaggaa tacccttttg ggatctcatt agaagtttca aag 413

<210> 16836
 <211> 463
 <212> DNA
 <213> Glycine max
 <400> 16836

tactgttaga actctttcag atcgaatctc atgaccacca tagacaaaaa gtttcccccc 60
 gctattattg gcacaccaat gtagaacaat aatagggagt cttctatcag ctgatgaaaa 120
 ttgaagcttg acaacattgt ttgacaatct tccaacttct tggtcagggg gaaagtccgc 180
 agttgacaaa tccccaaaaa ttaatacacc atctacataa cccacaacaa ccacccgacc 240
 atcattagat gcccaagata cagagattat ctccttctcc tctcttctat ggtctaat 300

atcatcagaa agctgaaccc tagagtcatt tggataacta gtcactatct ttctcttcaa 360
 ttgatgtcc ttgtggcctc taatgagaac aattcgatct tcagaagcat cccagagtag 400
 caccaaaaca ttttcgtatg caattagcag tctgcacaaat gac 460

<210> 16887
 <211> 119
 <212> DNA
 <213> Glycine max

<423> unsure at all n locations
 <430> 16887

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 gataaaggta gtgttgccat gttttcacaag ccgtactcaa ggcatataac tctaatcat 100
 a agttgaata gtaagggtta ggaccactta gcttttact aaaataagca attggatggc 140
 ctctctgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaaag 240
 aattttgaaa gtgtggcaac gcgagtatgg tggcattagt tagcttttgc ttaagaacat 300
 tgaaagcttc ctcttgcttc tctccccatt tgaacccaac attttctctg agcacttcat 360
 tgagaggtgc tgcacatgtg ctaaaatcct tcacaaatcg tctataaaaa ctgtctaagc 420
 catgtgtcgc aacctacctc tgggcggga 449

<210> 16838
 <211> 446
 <212> DNA
 <213> Glycine max

<430> 16838

taagctcctt caactgcaca aggtctctaa tatttgaaaa gtattcttgt ggaacattca 60
 ccgacgaag acaactgaca aaacttactt tctctctttt ggacaaggta tggcaagctg 100
 ggggcaagaa aattttcttc ccatcagacc ttggatgcaa ctatgatcat atccccatat 180
 cagctagatc ttgataggta ttcaagtcac ccttcgtctt gctttgaatg ttaaggagcg 240
 ttccaatcac actgtcacaa aaaattttct ccacattcat aacatcaata caatgtctaa 300
 cgtctagatc agaccagtag agaagatcaa agatgatgga cctcttcttc catatgcaac 360
 tatractttt atcttctttt tgggtcttcc caaatacagt attcaggggtg ttgaacccgc 420
 tgatatacct gctcaccagt caacag 446

<210> 16889
 <211> 402
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <400> 16889

ttgagatggg atctggctct agaatctaat ttgctaagat cctattctgt gggattggcc 60
 aacctgagga atggtgtagt cttgctgctg actacttgca ttgtggcccc ctgcagctcc 120
 cttccatata cctaggggatg cctatagggtg ttaacctag aaggaaggty gtgtgggagc 180
 ctataatcag aaaanttgaa gccaaattga acaaatggaa ccacagaagg atctctatgg 240
 ctggcagaat taccttaatc aatgctgtct tgacagcttt gcccttgctt tatatgtctt 300
 atttcagggc cctctcagca gtcctcaaga ggctcactac tctccaaaga caattctctt 360
 ctgggtggaaa ctgtgaagga aaaaagatag cttggatctc at 402

<210> 16390
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 16390

agcttctcga tctattatgc gcctgaatcg gacctccgag ttaaaagtta tgaccattaa 60
 aatttctcaa gagcttccgt tgattaatc cgtgcgtctc gatataattat gtgcctgaat 120
 cggacctctg agctaaaagt tatgaccata tagaatatct cgagagcttg cgttggtcaa 180
 ttctatgggt ctcgatatat tatttgcttg aatcggacct ccgagctaaa agttatgacc 240
 atttcaattt ctgagagct ctgctgtctt aatttcagag gtctcgatat attatgttcc 300
 tgaatcgaac ctccgagtga ctatttatga ccactcgaat agctcctcag ctccattgtt 360
 tcaatttggg gcactctgat atatgatgcy cctg 394

<210> 16891
 <211> 388
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <400> 16891

ctcaagaaat tcanatggtc ctaactttta actcggagyt ccgattgatg tggtttttat 60
atcgacacgc tccaaattga acaatggaag ctcttgagca attcacatgg tcataaatag 120
tcagtcggag gtcggattca ggccataat ttatcgagac gctcgatatt gaacaacgga 180
agctctcaag aagttcatat ggccataact attaagtccg aggtccgatt caattcatt 240
aattatctac aagtcacaaa ttttaaaat gaagctcttg acaaatcaaa aaggtcaaaa 300
cttttaactc ggagggtccg ttcaggcaca ttatatatcg agacgctcaa aattgaacaa 360
cggaagctct cgagagattc atatggtc 393

<210> 16892
<211> 456
<212> DNA
<213> Glycine max

<400> 16892
'cgtgatagat atgaatgttc aaaaccaata caagagagag aattttatct tttattttat 60
tctaatacgac cataaaaagt taaataaaaa taaatgtgga ctttgaaact ctgattatct 120
tcgttattat tatattagtt aaattaaaca attttagtaa ggacgtctag ctagctcaat 180
agattgatat agtatttaat ttctgtggat aaaaaaaatc tttgtttgat actttaattt 240
tattctatct taaaagaaat tatttttatt aatagcttaa ttatataatt cgtcatttaa 300
ttataattaa aaattccatt gagttcgtca attattaaaa cattaaaatc tcttaattgt 360
ttaaacaatt tccgttatta tttttgtcc attacagaat caattatata attgagctct 420
ttattaaatt aatgaaattg cacatgtgat cacaca 486

<210> 16893
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16893

agctttgagt ttntcaacc atgaatcaa aattctaaty tatatgtata tatctatcta 60
tatttgctta ccaatgacgc aaattttaat ttgacaacaa tgattgattt ggtactatat 120
ctaaagggaag ctttaactct tgcagccgt tgggtataaa ttttaattaa taattattga 180

tttcattcaa taaatatcta gtatacttaa acattttattg ttgaatcaaa attcctaatto 240
 tataacaatc attcatatgg ctattgtaaa aatattttgtg gaaaagacat ccaatatttt 300
 atgcaacgga attttttttgt aaaaaagttt acacatttac aacaaaataga attttttact 360
 ccttgattg tattttactc caatggggtt aaatcaatt taaaa 400

<210> 16894
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 16894
 cttcttgggtg ggttgatgca ctctatctcg tagaatggta tgatcaactat cagacatatt 60
 ctcaatcaat ccagttgcct ctccaaggtt ttccaattct atcttccttc ctgctgaagg 120
 atctaacaac tgcctgggtt gtggtctcag cccatctata aacatgttca attgaattgg 180
 ctccagagaat ccattgtgtg gagtctttct taacaaaacc cgaaacctct ccaatgcttc 240
 actcaaggac tcatcaggga actggtgaaa tgatgaaata acaactttcc cttttgcagt 300
 ctttgaactcg gggaagtatt tcttcagaaa ttctcacaac acttcctccc acgtcttcaa 360
 atttttgcct ttgaatgaat ggagccactt cttggcttcc cctgccaaag aaaatgagaa 420
 taaactgagc ctgatggcat catttggcac tcttgcaatc tttat 465

<210> 16895
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16895

tgccttgccc catgatatat ttgagggact tatgatcaat atgtatgaca aattccttgn 60
 gataaaggta gtgttgccat gttttcaaaag ccgctaactaa ggcatacaac tctaatcat 120
 aagttgaata gtttaagggtt ggaccactta gcttttcaat aaaataagca attggatggc 180
 cttcttgcac caacacagcc ccaatcccaa catttgaagg atcacaactca atttcaaaag 240
 atttttgaaa gtttggcaac gcgagtatgg nggcattagt tagctgttgc ttaagaacat 300
 tgaaagcttc tcttgttct cctccccatt tgaaacccac attttctctg agcaactcat 360
 tgagaggtgc tgccaatgtg ctaaaaatct tcacaaatcg tctataaaaa cttgctaagg 420

catgtgtcgc aacctacct tctgc

445

<210> 16896

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16896

acgtctgaaa tctgaagctt aatatccaaa tgcacaaagt tcanaaaaaa tgcacacaca 60

tgaacctctat ttatagccta agtgtcacac aaaattggag ggtttgaaat tgaatttgty 120

gagccaaact ttggagccaa aatttcacta attatgatta gtgaatttta gttatgggtc 180

agcccactaa tccaagatca aatataatat tctccactaa gtgtgcttag gtgtcatgag 240

ccatgaaaag catgaaggac atgcacaaag tctgactata tgatgtggca atgaggtgta 300

gtaagcaaat gctcacctgc cctctaaaa ttaatttga ttgngcttct accaatccaa 360

ttaaatttat tccaaccac acacatcaaa tatccactta gtgcattgta aattacataa 420

ctacccctaa taca 434

<210> 16897

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16897

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acgagacatc ttgccaaaac aagtcaggtt caagataact tgcctgtgct tttctctcca 120

tgttatgtgt agcaaaagtga ttgatccagt aatgtttgat gagttggaaa acgagaccgc 180

aattatacta ttgccagttgg agatgtattt tccccctgct ttcttttgaca tcatgattca 240

cttgattgtg catctggtca gagaaatcaa atgtcgtggt cctgtttatc taagggtggat 300

ctaccccggtt gagcgataca tgaagatctt aaaagagtat acaaagaatc tatatcatcc 360

gaaagcatct attgttgaga ggtacattgc agaagaagcc attgaatntt gttcagaata 420

cttagagacg gctaaaagctg ttgggtcttc ttggtctcng catgatgaca 470

<I10> 16898
 <I11> 473
 <I12> DNA
 <I13> Glycine max

 <I23> unsure at all n locations
 <I40> 16898

 tagattgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaaactega 60
 cagtttaagt agactcgtaa gattccata gactcaactc gttagacttat acgagtcac 100
 ttcataaaa aataataaca aaatatctat aaataacata ccaattaaa atntaaca 140
 tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240
 atgcataact actagataat aacttgcaga ttttatagta gtggttagagc attcccatca 300
 aggat ttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360
 tcaagaaaca cacac 473

<I10> 16899
 <I11> 375
 <I12> DNA
 <I13> Glycine max

 <I23> unsure at all n locations
 <I40> 16899

 tagattgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaaactega 60
 cagtttaagt agactcgtaa gattccata gactcaactc gttagacttat acgagtcac 100
 ttcataaaa aataataaca aaatatctat aaataacata ccaattaaa atntaaca 140
 tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240
 atgcataact actagataat aacttgcaga ttttatagta gtggttagagc attcccatca 300
 aggat ttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360
 tcaagaaaca cacac 375

<I10> 16900
 <I11> 457
 <I12> DNA
 <I13> Glycine max

 <I40> 16900

cgcgcgcgcg aaatccctct ccacgcagct gccagagttc tgcttggtcg tccactctct 60
 ctgcttcccg gaggtccagc ccagcctcga gaaacacacc gaagacgtcg atttccaaac 120
 ctaagataac tctcagaacg tctccaaata cggaaacgagt cgaccggggg gaaccgactc 180
 gttcagaaaac taagccaccc ccttcctcag cccttcagat aacattttt gctgttatcg 240
 gcttccaccc ccttcctcag cccttcagat aacattttt gctgttatcg 300
 ctacagaccc ttaaacacct atggcacttc ctccgctggg ggcgcggggg agttccaaac 360
 gtaagccacc gaatcaaaat tcccgagct tgatttcacc acctactccg acagctccgg 420
 cgggaggagg cagtctttct cgagctacgg cgagaac 487

<210> 16901
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16901

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 tattcttaat taattccatg gcttcttcag ggtctttcaa ttntattttt cccctgcag 120
 aagcatctaa aagcttcttg gattgtggcc ttaaccgctc actaaaaata ttgagttgga 180
 ttggtttctga aaatccatga gtaggtgtct ttcttagtaa cccacgaaat ctttccaaag 240
 cctcactcaa ggactcgtct ggaaattgat gaaaggatga gatgacagct tttccttcag 300
 cagctttgga ccttatgaag tatttcttca agtatttttc aaccacttca ttccaagtct 360
 taagactgtt accttataat gaatggagcc atc 393

<210> 16902
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16902

ctcatgtcaa cgaaggagca aatgcagtg ctcttgggag gttcttcaat tgcctatttc 60
 tacccttcaa tcaaaagtct tccattgctc acaggaatga aaagtcaact tgaaaggggc 120
 cccagagaga atgacaagat cctacaaaat atggccaagg atcacaagga aaatgagaac 180

aagaatgggg tgaaggacga ggatattatt gatattcttc tcanaactca naagagagat 240
gaattggaaa ttcccttgac tcacaacaac gtcaaagcac tcctctgggt tagtatgcaa 300
ttctctttta cattacttta agattcccat gtatacaact atatacgtgc atagatatga 360
aatttgcga tataataact ttaactttta tatatatga gagagaggya gagagagaaa 420
atgagatg gattattta ttaata 480

<210> 16903
<211> 327
<212> DNA
<213> Glycine max

<400> 16903
acacgtgaca tcacctatgc aggaagtgtt tgtgcaaat atcaagccaa tcctaagata 60
atctacttga atcaagtga gagacatctg aaagatgtat atggcaccag cgaactatgg 120
attatgtact gccatcgttc agatccatcg ctggtcgyga atcgtgacgc tgattgcgct 180
ggacgtgcac acgacagaaa aagcacttct ggagaacgtt cctattgggy aaccaatcct 240
atatactggg tcacaagaa gcagaactgt gtgtcctatc tactgcagaa gcgaggtata 300
ttgcagcagg agacactga cacaact 327

<210> 16904
<211> 374
<212> DNA
<213> Glycine max

<23> unsure at all n locations
<400> 16904
agccttgatg catcatttgg agaggtaat gaaacaacga gatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tgggttctct agacaaaacc gaattgatgg tattaaactc aacattcttc catttaaagg 180
aaagaatgat cgggaggcct acttggagtg gtagatgaaa atagagcatg tattctcatg 240
caacaactga ggaggacaaa aaggtgaagc ttgcgcacca cgggaatttcc gaactatgctc 300
ttgtgtggtg gaacaagctc caaaagagaa gagcaagaaa tgaagagcca atggttgata 360
catggacgga gatg 374

<210> 16905
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16905

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tcaatataaa atcaagctctg agtgc taaa caataaatat tttactcatt ctctgattga 70
gicattgtaat atttcgagac gctcgaaatt gaatacggaa gctctgagca aattcaaaacg 120
acaataaatt tttactcgga tgtctgattg aatcccataa tatatcgaca agctcgaaat 180
ataatcttga tgcctcgagc aaattcaaac gacaataact ttttactcgg atgtctgatt 240
tagtctctga atatatcgag acgcttgaaa ttgaatcggg aagctctgag caaattcaaa 300
cgacaataac tttctactcg gatgtctgat tgaatccat aatatatcga caagctcgaa 360
ataaatctt gatgtctga gcacattcaa acgaccataa ctttttactc ggatgtccga 420
tagagctctg taatatatc 439

```

<210> 16906
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16906

```

atctgctcgt cttgctgata tttatcatgc acactnttct gatgatgacc tangaacaat 60
tagggatcaa cttgaaactt atgtgcttca agtgagaaga aatgcttctt tgtccacttg 120
tgaagatggt caaagtttgg ctatgaagat ggttcagact gagaaacatt tgggtatttcc 180
attggtttat aaacttattg agctagctnt gatattgccg gtgtcgacag catcggttga 240
aagagctntt tcatcaatga agattatcaa gtctaaattg cgcaataaga tcaacgatgt 300
gtgggtcaat gacttgatgg tatgttacac cgagcgggag atattcaagt cgcttgatga 360
tattgatatt a 371

```

<210> 16907
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16907

```

agttttataa tgttagcagtt ccagggacca tgcacgaacg ggcgatcaat acaaaaagaa    60
taactaaatcc atgggaaagg aatgaaaatc acacactntg cctcaactct gctaaagcaa    120
ttggatgtac agtggccaac attggcactt agtattcat taaatcaayt atagtattgt    180
aaattttta aattttttttt ataaaaatag aattatgttg gaaatg aca atgcagaaa    240
taaaaattta agatttaatt taatttataa atgaaatctg gtcagatttg attattttct    300
gatcaaaagta attctcaatc aagttaaccc cttttttaaa tgattccgaa tgcctggtaaa    360
atattctntat agcatgctac atttttttac agtcaaaagcc tntctctatt ctttntggca    420
atgctacaca                                         480
  
```

<211> 16908
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16908

```

tggttgaagtc taaatagatg gtgactagac atttngtgat tcaaaactcca tagaaggat    60
atagaaacta ttttaattaaa aaacaacctc agaattcatt tagttcatat atttcgagga    120
gagctactgg tttgttttga gtagtgcatt cagatgtgtg tggaccattt atggttcctt    180
ctcttgggtg gaacaatatt ttgtttcctt tgtagatgaa tttagcagaa tgttgtggat    240
ctttcttctc aagtcacaagt caaaaaaatt ttcaatcttt aagaatttta agttacttgt    300
tcaaaaagcaa tctgaaaaaa catattaaga tacttatgac tgatgggtga gttgagttga    360
gtatcccttt aaagagtttg aagattattg caaaggatnt ggcattcaac atgaagtgat    420
attaagtatg                                         480
  
```

<210> 16909
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 16909

```

tgataaatct atatatggtt taaaacaagc ctcccgtttt tggtaacctt agtttcaggg    60
  
```

gataatttct tcatttggtt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 cagtgggagt aaaatatgtt ttcttttttt atatgtagat gatattttac ttgtagccaa 130
 tgatcaagtt ttgtacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240
 tcttggtgag gcatctttag tcatcgacat taagattcat agagatagat ctgagagtat 300
 ttctcttga ttatagaaa ctatatcaa caatctctg caatctctg caatctctg 360
 tcttgagca aaatgagct tcatctgagc ggtgatagg ttttaattga accaatgtcc 420
 aaagaatgac 480

<210> 16910
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16910
 agcttgtatg gttaaagtct cactgatttc acgtgctcat gcaacaattg ttagtcgtgg 60
 ctatacaaga catcttgcca aacaaagcca ggtagccat aactcgcttg tgctttttct 120
 tccatgctat atgtagcaaa gtcattgac ctgtcaagtt tgatgagttg gaaaatgagg 180
 ccgcaattat actgtgccag ttggagatgt ttttccccct gctttctttg acatcatgat 240
 tcaattgatt gtgcatttgg tctgagaaat caaatgttgt gatcctgttt atctaagggtg 300
 gatgtacctg gttgagcgat acatanagat cttangaggg tatacaaaaga atctatatcg 360
 tccaaagca tctattgttg agaggtaacat tac 393

<210> 16911
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 16911
 tcttggatgc ttactccaga taaaactaga ttaggatttt tgctccaaag gaggcgaaga 60
 tgacatttat caataaagat accaaacttt gctaaagggc tatgcccctt cagcctaaaa 120
 atgttagagc ctacatacca atgactgatg gaccgagctt ttaaacacaa aataapacaa 180
 gacatcaagg tatatgtgga caacgttggc ggtaagtctc gaagcatagt ccaacatgtg 240
 gcagatctgc aagaagctct caaggaaact tacaagtatg acatgcgctt caacccgtgaa 300

aaatgtactt tgggggtagg cagaggcaag ttctctgact tcattgatcac tcaccaaggg 360
 attgaagcda accttaacaa atgubctacc atactagaga tgcacagccc gaccaacatc 420
 caagaagttt agaa 454

<210> 16912
 <211> 100
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16912

aiccttgagc aaattcaggc gacaatatct ttttactcgt atgtctgatt gagtcccgtc 60
 atataacgag aggttcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
 ttttactcgt gatgtctgat tgaatcctgt catatatcga gagcttcgaa attgaatgtt 180
 gaacctctga ggaattcaaa acgacaataa ctttttactc agatgtctga tatagtctcg 240
 taatatatcg agagctcga aattgaatgt tgaagctctg agcaaatcca aacgacaata 300
 actttntact cggatgtctg attgagtcgc gtcatacatc gagaagctca aaattgaat 359

<210> 16913
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16913

tcaacattca attttgagcg tctcgttaatt ttactgtatt caatcagaca tccagataaa 60
 aatttattgt cgtttggatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat 120
 attacgggccc tcaatcagac atccagatga aaagttattg tcttttgaat tggttcagag 180
 ctccaacatt caatttcgag cgtctcgata tatgaccgga ctcaatcaga catccgagta 240
 aaaaatttatt gtcttttgaa ttgggtcaaa gcttcaacat tcaattttga ggtcttcgat 300
 atattacggg actcaatcag acatccgagt aaaaagttat tctcgtttga attggctcag 360
 agattcaaca ttcaatttcg aggtctcga tatattaagg gactcattca gacatccag 420
 taaaaac 457

<310> 16914
 <311> 414
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 16914

ttacattac gaatttatat cagtcgaaca tatattatta taaatctat ctttatatt
 tggatgaac agaaagatc gacttgatc agtatatgta ctatggcaat ctattgaaca 120
 atttaattaa ttaattatto gacagaatac atatctgcaa gtttcaatat atattttatt 180
 caaaccaaaa cttatctata tcaggaatat gagtaattat gtttcaaac cataaatatt 240
 taaagaaaaa agtaaattag ttogatatag ctataactaa atcatagcag attatcaato 300
 aagttacatg tagtagtgta tcttattgaa atgaaactat ctttgagagt cttatgagct 360
 aagcacgtta gaatntggaa ttagggtatc aggtggccca tgcattccac cact 414

<310> 16915
 <311> 419
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 16915

agttttttct tgtttctctc cccatttgaa accaacattt ttcttgagca cttcattgag 60
 aggtgctgcc aatgtgctaa aatccttcac aaattgtcta taaaaacttg ctaagccatg 120
 aaaaactctc acctcgggtc cggacttang tgtaggccat tcttgaatag cctaacctt 180
 ctcttcacac aattgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgggt 240
 agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcac 300
 gacagattnt aatgatcaa tatgcaaato aagtgaagtg ttatagataa gaatatcato 360
 aaagttacac acaacgaact ttcttatgaa ctctctcaaa tatggttcat agtctcatg 419

<310> 16916
 <311> 431
 <312> DNA
 <313> Glycine max

<400> 16916

tccatcactg tatttggcca gtttcagat tctctatatt aagaagaacc gatacatca 60

cagtgcacaaa atttatgggtgg aagggaattg tagtgttgtt gttcaacaca ttcttccacc 120
 taagtacaaa gaacttggag ttgtcatgat accgtgttcc attggttaagg ttgtgttagg 140
 aaaagctctc atagacttgg gagctagtat caacttaatg cctctttcca tgtgttggtg 240
 atttgagag atagtatga tattacag ctgacctc tagttagctt attgtccat 340
 cgtacaca atgag da ttaadaatgt tt gggaaa n caaacct tga 4
 agtcaatttt gttggatag acatagaaga ggacgtgat attctctca ttcttggtcc 440
 cccattcatg 481

<210> 16917
 <211> 426
 <212> DNA
 <213> Glycine max

<223> insure at all n locations
 <400> 16917

tgaacctcat cgcactact agatgactcc acttctctat ttctctctaa agacaacacc 60
 aagttaaaat caatcatcac aattacttgc catcaaagct actacctttg ccataaactt 120
 ttccccttag gtcataggga gcatatacat taatcacctt tgttggacaa gaggcctcaa 180
 taacttaaga gggggagaaa ttaagtttca aaatttccca ctaactaact tttaaccctt 240
 tttaaatga taggtctgaa atgcagaaga agaagcaaca atcaatttaa taatgttctt 300
 taaacatgca agacaaaatt gattgcaata acataaatga gataagggaa gagagaaatg 360
 caaacctaat ttatatttgt tggccactt cacatgtcta tgtccagtcc tcaagcaacc 420
 cacttg 426

<210> 16918
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 16918

tcaatacagt gacactagt ttgcaacaaa ggagctgtct tagtcttttg gatgggatac 60
 atatgattct tccatgcagc atgatgttca agaactaaat cgggttctct gtagaaaact 120
 tgaagacaaa atgaaggtat ggcaagagat ttggaatgtt tgttcatgat tctcttgat 180

gagtgatcat accaaatggt tgttgtatgt tatttttttt caggaaaactg ttgttgaggg 240
aactatacaa aagttatttg aaggacacca tatgaattac attgaatgca tcaatgtaga 300
ctacaaatca actagaaaagg agtcatttca ttgtaacttcc ttatgcattt tgaattcaat 360
tatatgttta gttttttttt gtaagtaac tctaatatag ttatgtaata tggatgttgg 420
atcttcaagt tga

<210> 16919
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16919

agctttctga cctgagcatt tgaattgaga aaaagctcat tatcttcacg gcagaattcc 60
ccaatagcac gtacatcaac aaggttccca gagtctctaa ttggaagaat gtgtatagtt 120
tgatagcgaa gtgatacaat tgccaatagg tcatcataca agaagacccc catattatgg 180
gttanattaa cgaagtcatt actgaagacc ttcttgtcca agatctctcc atcttccagt 240
ctaatttagt aattaatagc tgagaaatgg gaacaataca taatctagag tgaacagagt 300
atgat 305

<210> 16920
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16920

tgtgcttoga ccaaccacgc ctcaatttac gtgccattgt gtaagttctt gcttaaaagt 60
gcaaccttca atgggaaatg taacaacaag ggtatttcta taacaattga tggcactttg 120
gtggctctct cagattatag ggtcacggaa aactccggtt actggttggg attcgagcgt 180
gtcaacggag tttegattca cggggggggg ctgacgggc aaggcactgc ctgtgtggat 240
tgcaagaact ccggcaaaag aaactgcctc agcggagcca cggtatgtta aatcaattaa 300
tttaactctc atggattgaa cattattcgt tgacatgcac aatttcttgc tcccatat 360
attgttttga ttgatgttg caggttggag ttgtgacttg gtgattactg agatctctt 420

agtggggga

429

<210> 16921
<211> 420
<212> DNA
<213> Glycine max

16921-16922
16921

aaagggtat ctttatttc agaaaatgga ggtgtttaa caagtcactg ctatgctcgc 60
gttttgctta atccaaacta gccatagctt gttctcttct ccgatactcc tagttaagaa 120
gaaajacgga atctggcatt aaagggcact aaaggaaatc abggttaaag attgttttcc 180
tatgcacaac atgatgaat tactcgacga ttggggccaa gcatcatggt ttttgaagct 240
cgatttatgc caaggatttc atcagatacg tatgggtcaag acttaccttc ataagacagc 300
ttttcaaatg cactagggac attatgagtt caaggtcatg ccttttggcc ttataaatgc 360
ccttctact tctcaagcaa ccatgaatga tgcgtccaa ccatctctga ggaaatatgt 420

<210> 16922
<211> 427
<212> DNA
<213> Glycine max

<400> 16922

ttcctttgag aatccaagaa gcattatttc tcttgtttac caaagttaat gtcgctgatt 60
gaatggcagc aaaaagtgc aaaatagctg tactagagta ttgacatggg tattttttgc 120
taatttttgc ttgtataatg aacctgaag accacaggag gcaacctaga gtcagaagta 180
tggagcctac aatccatttc tctaacttgg cagctggaag cgtgcttgta attttgtttg 240
ctatgtgttg agattgtggg ttgataaggy gcattccttt ataaaggacc aataacaaag 300
ctccaccaat gacacccaaa gtcccatga ctttggtgtt accactcttg ctatgcatgt 360
tcactctctc taacctagaa aaatttcaag ccaaaggatc aaaagtattt ttcttgatt 420
ccacat 427

<210> 16923
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16923

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agctttatgg agattcatgc atcagggaac aatttcactt taaaagtggg tcccaattgg 60
cttcataatt tttagctttt ccaattggat gtagatcat ggaggttgg ttccatcttt 120
ttatgtaga tttagctata aaattttt tatatttaa tctttttt ccccaatgatt 180
atgatttata tttccacaca gattggggaa gtaattcttc aggttttcta ttttaacctc 240
tttcataatt acatccatgg tgagagtggg actacattaa agaattccat atctatcccc 300
attattgate taagctcana tcaattggtt ggtaaatacc ctatctttta agtgatgtgt 360
ttcagttaga tctttt                                     375

```

<210> 16924
 <211> 423
 <212> DNA
 <213> Glycine max

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tagagagatt cccgatctga gaggttactg ctccgtctgc aacagctctc aggtcaagat 60
aaacaaaatt tgagagattc ccaatctgag gaggaatctt ccccatgaat ccagtatgag 120
agaggttgag gtgagtcaag gaagtcattg tcccaaggaa agaaggaatt gacatacctt 180
ctccaaggta ttcattggcg ctcaagtcca agtaattcaa atgctttaaa tcagccaaac 240
aaggacttat ctctccacca aagctccatc tctataage ttcccaatca tcattgaaaa 300
tagaattctga agagttgagg tgaagctgaa gaagatggga agtaagggtg tggcagagga 360
ctccatacca ggggcaacag ttggtattat tatgattcca agaccaaagc ctattggaag 420
gattcatg                                     423

```

<210> 16925
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16925

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agctttatct taccattag taaaaaaaaa aaaagtggg gacagtggtt tctcttctc 60
tttcaacttt ctcccgttt ctcaattaaa atgggtttta tcatgaccca cgttatggaa 120

```

acaaattatt gttctcacat anaatttgta tccattoget taatcaacaa catcatoget 180
 aaagagctta aattgggtggg catcaagaac caatttcctt atagaagaga atgcgcgccat 240
 tattccaaca cccgtgaaga ccaccataat tgaggtgcta atccaataag tgaaggatga 300
 atttgagggc tttatcttca tgttgtacat aagcataggg ayaacyaat ccaaaaggat 360
 ataa

<210> 16926
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16926

ntccaagatg gccaagttca agcctaacga tgggttattt attgaaaggt gcaatacaat 60
 tctgtgtatg aaattcaaat tttactatgt tagtaggtaa gattaaggat tgggcagtg 120
 tgtcatggac tatcgaaaag atttccaagt aacaagaagc atccgatgat gtccgataga 180
 attcatatat tgttgttgct ttagaaatat atttgttatt taattccaat tatattttga 240
 ccaatttcat tttaagtttt taacaaaact ctttataatt ntagtctgct ataatatagc 300
 aatcattgta gagtaatatc ttaaaatttt aatgattaac taagatcagt gtattatgca 360
 tttcaattaa tataaaaaact tgtatatctc atagtatata aaaacttgca tacttcatag 420
 gaaatatttg ataa 434

<210> 16927
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16927

atttttttat gtgtctagct actatataaa ataacaacat ctatatggtt attttttaaa 60
 aagaaaaata gtgaaaataa aaatatgaat cgggtgaaatt aaagaaaaag tatagtaata 120
 tggagaattg agtfgatgat gatgacctgc atgagcatag aaccatgcag ggcgcagtg 180
 ttgaatgtgc ctaaaagtgc gtgcgggtgat ggctcccatt ggttaacaaaa tgccttcacya 240
 tatggcgcta accgtgccat ggcacactct caacgtcgtg agatccgtgt gctgtggagc 300

cgaagaaacc gacaatacgt canaggtaac aatggaagac agatcgggtg aagtagttgg 360
 atgaatgggtg ggagagtagc cctgaacgta 390

<210> 16928
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 16928
 tatctcttca aatcattttg aaaaggcacg aactacctat atatatgggg gtctgatttc 60
 caaaagcaag agagagatat tcccagagaa ctccattgtc aaatgctctc tcaacaactt 120
 ttggggcgaac acttgccaat ctattaagag ttcattccaag aacttcaaatt gtaatatctt 180
 tcttttaaag agagaattct tcttcttctt attaaaagag attgattaat ggaccgagag 240
 tctcttaagt tctaaggatt cctgaaca 268

<210> 16929
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 16929
 tgataaatct atatatgggt taaaacaagc ctctgtctg tggtagctta agtttcatgg 60
 gataatttct tcatttgggt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 cagtgggagt aaaatatggt tctttttttt atatgtagat gatattttac ttgtagccaa 180
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aatgaagga 240
 tatgggtgat gcatcttatg tcactgacat taagattcat agagatagat ctcgaggtat 300
 ttgggtctta tcacaggaaa ctatatattaa caaaattcta gagagatttc agatgaaaga 360
 ttgttcacca aatgttgcct tcattgtgaa gggatgtagg tttaatttga accaatgtcc 420
 aaagaatgac t 431

<210> 16930
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16930

attgcccatt atagctttga aattntctcc cctttgttca caaccaagtt acccttggtg 60
agttttcaact ttccagaacc atgggtggta tcataaccag catcatcaag tacctgcaca 120
tgaatcaat taagctaat attagacca tcttcactc cctt agtgc caactgatt 180
tccatgttg ttgcacaaa aacatcacca aaaccaatca ccttcaaaa ttaacatta 240
tccatctta taaatcaa atcacttga gggtgaagatg tgaagaactc ccttcagact 300
taacatgca atgtagtacc actatcaatt atccacatat tcttatcaga tacaagatta 360
tgcgaatcag ggtcatggag aataacaaga tcactactgg tagcagtagt cacacagtca 420
tcactatgat 480

<210> 16931

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16931

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agcttgtaac aaatcttcta cacttggagt gatcacctgc agtctctctg aacccttacc 120
aaccactctg tcactatgac gacactcang aagcccaaca attttagcct tctctaagta 180
ttctgaacaa aattcaatgg cttctctctgc aatgtacctc tcaacaatag atgcttcagg 240
acgatataga ttctttgtat acccttttaa gatcttcatg tatogetcaa cggggtacat 300
ccaccgtaga taaacaggac cacaacattt gatttctctt gaccagatgc acatcaagtg 360
aatcatgat 369

<210> 16932

<211> 377

<212> DNA

<213> Glycine max

<400> 16932

atgcttcttt cactaatata taactggaga atatatattat gtttaacaaa actagttcat 60
aaqitatata aaagttaact aattttttaa aatttattac aatgaattat tcaattataa 120
tagttgatta aaattggcaa ttgaagtagt gtaagataat aaaaaaggac atatatattt 180

atataaatto tagagtaaaa tatgttttta gtccttaaaa aaatttacia atttgatttt 240
 agtcattaaa caatettatt ttgttttttt taatatagaa ataataatgt cacaatatat 300
 actatcaaga tgaagatag agtattttta atttagagga gcaaatacag acaaaagaat 360
 ctatctgaa ttaataa

<210> 16933
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16933

ttgtgaagaa ctatttatgg aaaaacttca ttgtngttat ttagtatata caaatgagtt 60
 ttgtgaatt ttgtgaacat gcaaccttgg tgaaccttt cctccactc tctcatcatg 120
 ctgagaacttg ggaagcccaa aaggtttccac cttttcaatg tactttaaac aaaatttaat 180
 agcttttttt gcaatgtacc tttaacaat ggatgattca agatgggtata tatttttcgt 240
 ataccttttt aagatettca ttatcgtct aaccggacac atccatcgta aataaatagg 300
 atcacacaat tgaactttcc ttaccagatg aacaattaag tgaacctga tgtccaaaaa 360
 tgaaggagga aaatacatct ccagctaaca taagataata gcagtctcat ttccaagtc 420
 atcttaacttt at 432

<210> 16934
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16934

agctttatad ttgagattga atagtttaca atctccgtcc agatctagaa gtcatagaca 60
 accaacttaa gaagaaaaag aggaaaaagga gtattcatat ggaacaagtc atggaagaag 120
 gccaagaggt gaaccaagaa tagataatca ttgggggagc attaagatga caatccctac 180
 atttaagggc aaaaacaatc ctgagttgta tttagagtgg gagtgaaagg ttgaacatgt 240
 ctgtgattgc cataattatt ctgagaaaaa aaagatttaa ctagtgtttg ttgaattcct 300
 tgattatgt agtatttggg gggatcaact ttgtactaat angcaagaa atggtgaaag 360

gcctattagt agatgggagg agatgaagac tgtcatg

397

<210> 16935
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16935

attttgtatc tacatagagt agaagataga tcattgaccc atcctccacc ttgtttgtgat 60
aacacaaaca atcatagaga cttctcttga atccttggct ggtagataaag ctatcaaacc 120
tcattgtacc ttgccttggg gattgtttca aaccatacaa ggacctttgc agttgacaaa 180
cataccttcc ttttacttga acttcaaaac cttcacgctg tttcattaga atattttctt 240
ccaatcttcc atggagaaaa gcagtcttga catcaagttg ttcaagttcc agatcttggg 300
ttgcacttat agcaagcaga acctgatgg atgtatgccc aaccataaga gaaaaaatnt 360
cattgaaatc tatntcttct tctagctga atccctt 397

<210> 16936
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16936

agcttgtatt gtaagaaatg acaagaaact acggaatccg aaatagaatc aatgaagatc 60
aacaaaagtat gggcttttagt tgaagcttca aaggatataa aaccaattgg ttgtaaatga 120
gcttacaaga aaaggattgg agcaaattgg aagggtgaaa cctacaaagc tcattctgtt 180
gcacaagggat atgtcaaaaag taaggtatag attatgacaa aacttttctc ccgtggcaat 240
gtccanatca attcggatcc tttttgtat agtagcatat tatgatcatg anatatgaaa 300
tggatatgga aaatggtttt acttaatggg gagctaaaat aatgtgtata tgacacaacc 360
tgaggatca cacttgtct g 381

<210> 16937
<211> 424
<212> DNA
<213> Glycine max

<400> 16937

ttgtgcacga ttcaactgtga cagtcaaagt gtcattttct tagaaaatca ccaaatgtac 60
catgagagga caaagcacat agatgtgaaa ctacaactca tcatagatgt gattgaaatct 120
tgaaggttaa apctggagaa ggtttcaaca aaagaaagc tgggtatct gttcaaaaag 180
tgcctctata ggttaagtt caaacaatct ctgaattga tgaatttga agatgcttaa 240
agcaatattgg tagaagtgcg gccctaaatc aaaggtaga cacttgcgtga tttggagtcg 300
agtgagagat ttgtggtgtg tgaactcaaaa tcacattggc tcaagtgaga aggtttttaa 360
gtgggtgtgt cataactgtg ttcagtcatt ataattgaat taggtttcac accaatgtat 420
agtc 424

<210> 16938

<211> 430

<212> DNA

<213> Glycine max

<400> 16938

acagcttcat caagaggctt cctctagaag ctctctgtg acttctctga gaagctttct 60
caagaggctt ctttgagaag ctacatcctt atctatccac cctctatta actaaattaa 120
ctctctaaa aattattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180
ttactaataa tatatatata tatatatata tatatatata tatatatata tatcaagggtg 240
ttacaactct cccacccttt tagaaatttc gtgctcaaaa ttaccttac tcaaacagg 300
atgggtgagc ttctgcctc tgaatttcta attcccacgt ggcattctct cctgatgcac 360
ctcccatat cacttgacc aacggaatct ctctcctct taggtgtggt gtacgcctat 420
ctctatcct 430

<210> 16939

<211> 368

<212> DNA

<213> Glycine max

<400> 16939

ttctctctgt gcttaaatat gtagggcaaa acttcattac ttctgttcaa gacatagaag 60
tgagcttga acaaatcttc tacacttga gtagcactt gaagtcctct tgaacctta 120

ccaccacactc tgtcatcatg ccgacactca ggaagcccaa caacttttagc cttctctaaag 130
tattctgaac aaaattcaat ggctttctct gcaatgtacc tctcaacaat agatgcttcc 240
ggaagatata gattctttgt ataccctttt aagatcttca tgtatcgctc aaccgggtac 300
atccaccta gataacagga ccacaacatt tctttctct gacagatgca catcaagtca 360
acagat

<210> 16940
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16940

ctgatttngt gaggaagata acggttcact tactatctat ctttattaca ttcaaataac 60
acatatatac atacagcaag aagaggagag agacagctta ataagacaag acatattggt 120
gtcttctacc ataagctaag caggaaatta ggtaagataa aaaaaataga aaatacacat 180
aattetaaca cttccctcca agttggagca tataaatcgt atgcaccaag cttggagcat 240
ataaactgaa tcttaggcct ccttaaggac ttagtcaaaa tatcagctgg ctgacatta 300
aaattaatga actcagtgac aatttctttg gacagtagct tctctcggat aaagtgcag 360
tcaatctcta tgtgcttggc cctcttatgg aagactggat ttgaagcaat gtgaatagca 420
gctgattat cac 433

<210> 16941
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16941

atcttatgag agagtcaaaag atcaaattga gaggaaaaaat aaaagttatg ctaaacaaagc 60
caacaaaggy agaaagaagg ttgtcttcaa acccggagat tgggtttggg tgcacatgag 120
aaaagaaaggy ttccgggaa acaggaaaaa aaagcttcaa ccaaggggag atggaccatt 180
tcaagtgcct gaaagaatca atgacaagc ttacaaagtt gagctgcccg gtgagtataa 240
tgttagttcc accttcaatg tctctgattt atctcttctt gatgcagaat ggagaatccg 300

attgaggaca aatccttctc aagagggaga gaatgatgan gacatg

346

<210> 16942

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16942

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taaaaaaggya aaaggtaata ttgtagccgg tgccttttct cggcgtcctg cattacttct 120

tatgcttgaa acaaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180

aacttttgya gaaattttta aaaatcttga aaaattttca gaaaatgggt tcttttagaca 240

tuaaggtctt cttttcaaag aaaacaaatt gtgtgtgoot aaatgtttct ctacaaattt 300

gcttgcttct gaagcacatg aaggaggttt aatggggcat ttgggggtcc aaaagactct 360

agaaacatta caagaacatt nttattggcc tcatatgana aaggatgtgc agaaantttg 420

tgaacattgc 430

<210> 16943

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16943

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acagagtcca ataagtatga caacattaac atgagaagtt ctactgatac actattagaa 120

aatatgtttt ctacatcggg tattttatgac ttccaacatc ggcttttcag ccgatgttga 180

aagtaccgac gttgatagta ttatcggtta catcggtttt tgagaaaacc atgttaacgt 240

aaaattacca acatcgggta tataaataac cgatgtttgt aatatgaatt acacccagac 300

aatgtatatt aatgttgaaa gtaaacatcg gttcttactg aaaaccgatg ttgttatcaa 360

gaanttttct ctatataatg tctgtgtaga caaccuatgt taacqaatgt ctgact 416

<210> 16944

<211> 395

<212> DNA
 <213> Glycine max
 <400> 16944
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 attatccacc tctgtgagc ctctgtgctt tctgtgctt tctgtgctt tctgtgctt 120
 attgctcttc tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc 180
 tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc 240
 tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc 300
 tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc 360
 tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc tctgtgagc 395

<210> 16945
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 16945
 tctatagctta gcaagtgtct agtttctctg caatgtacct cagaaggttg ataagcaatt 60
 ctccacagtg ggccttggca caactccctg cctccaaaat caaacttgct aaggaccacc 120
 caatgcaaca aaatttgcag catcagtgaa caatgtctct tttatataac caaccactgc 180
 actttctcaa gcccaactct tgggtcaatc caatggagtt tactcccttt actttctctt 240
 tagtccattg gttccattta actatacagg cactccacca aacaatacca tgggtgagcaa 300
 tgggacaaaag gttgtggttc ttccttcaa cacaagtgtg gaactagtga tgcaggacac 360
 cagcattctt ggtgtgaaa gtcacctct ccatcttgcct ggtcttaact tctttgttgt 420
 tg 422

<210> 16946
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 16946
 agcttctaca ttcattttg aggtctctg aatattacag gactcaatca gacatccag 60
 taaaaattta ttgtgtttg gatgtgtctc gagattcaac attcaatttc gagcgtctcc 120

atatattacg ggactcatto agacatccga gtaaaaagct attgcagttt gaattagctt 130
 agagcttcaa caatcaattt cgagcgtctc gatatatcac gagactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct cagagcttcc acattcaate cagagcgtgt 300
 tttatatata caggcgtcaa tcaacatcc cagtaaaaag ttatgtctg ttgaatttgc 360
 cagagcttcc aactat

<210> 16947
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16947

ctgagccaat tcaaacgaga tattctttnt actcggatgt ctgattgagt cctgtaatat 60
 aacgagacgg cggaaattga atattgaacc tctgaggaaa ttcaaacgac aataactttt 120
 ttctcggatg ttgattgag actcgtatta tatcgagacg ctcgaaattg aatggtgaag 180
 cctctgagctt attcaaacga caataacgtt ttactcggat gtctgaatga gtcccgtaat 240
 atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aatccaaacg acaataaatt 300
 ttactcggga tgtctgattg aggcccgtaa tatatcgaga cgtcggaaat tgaatgtgga 360
 agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt gaatcctgtc 420
 atatatcgag acgtcggana ttg

<210> 16948
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 16948

agcttgcttc ctttacaatt ggagtcatga ctaatgaaca tgtacttctc acttttgtca 60
 tcaacttgt ttgtatctca ttggcatgt gcacatgacc aatgcttcca aacactttta 120
 gatgtgaaat gacgggctta cttccattcc atgcttcttg tggtgattat cctcatacac 180
 tctttgatgg agactggcta gaaaggtaaa ctgcacaagg cactgcttct gccacagaact 240
 cctttggaag tcttatgttg atcaagagcc ctcaaaaatac ttatgaaggg ggggtcgaat 300

taattattcc taaacctata ctaataaaga aatcactctt ctaacgcctt tacttaacgtt 360
 tctgagagaa tattga 376

<210> 16949
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 16949
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 tcattttcga acgtctctat atgtgatggc ccttaactca acatccgtgt gaaaagttat 120
 gaccatttga atttctcaag agcttaacgt gttcaattat gagctctctc acatattatg 180
 cgcctgaatc ggacatccgt ttaaaaagtc aagaccattt gatttctctc aaagcttctc 240
 tggttcaatt ccgagcatct ccacatatta ttgcccga tctgaccttc gtgtgaaaag 300
 tcatgaccat ttgaatttct ccgagagcttc caatgtttaa ttccgagcga ctcgatatat 360
 tataagcatg aatcggacct tagtgtaaaa agttatgacc atttgaattt ctcaagagct 420
 tccgttgatc aatttt 436

<210> 16950
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 16950
 agcttttaag ataccgagaa agatagagct gtttgttaatt ttagtccttc gttctgtttg 60
 ataactcaca ataaaatggc atattactat tattattatt tgttctaata aatcatttac 120
 tattattatt ttaatttatg gtttgogaaa taaaaagaag ataggaggtt tttctagagg 180
 tgaatgatga gaccattcca cgcctctcca attaagtgtt ttccattgaa tctctatatt 240
 ttgttcgggt caataacata tttttgttat cagctgggtg tcttattgat gatgagaatt 300
 ggcttccaat ttctctaact atccatcatg atattgcgaa taagataccg attcatgctc 360
 aaaggctgca atatttggcc ttgcaagtt ggt 393

<210> 16951
 <211> 389
 <212> DNA

<213> Glycine max

<400> 16951

agcttggcat tgaacataac tttcttgcac ctagaacccc tcaacaaaaat ggagttgttg 60
atggtaaaa tgggttttg gaagaaattg ctagaacott attaaatgat actctcttgc 120
ttaaataatt tggprradaa atggataata ctgaaatga tctatgaa atggtttgaa 180
tgaagcccat ttttaagaaa atctctataa aactatctaa tggtaggaau caaaacatct 240
cgcactttca tgttttttggg tgcagtggtt ttgtattaaa caatggaaaa agaaaactta 300
gaaaagtttg atgctaagta agatgaagga attttccttg gttattcttt gcatagtaaa 360
gcttatagaa tatataataa gataacaat 389

<210> 16952

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16952

ntggaatgaa tttgttttct agcaaaaaca attattatac ctatagttca taaggctaaa 60
tggaccaate taagttttgt gcttttattt gttttttgct tagctagtct cttcttaagt 120
aatctccctt gtttttcttg aacaataggt ggcagaacgt aacaatgac ctcaattggc 180
agacttcatt gagagegagt tcttgatga gcaggtaaaa cttgcagttg aattcatagt 240
atgggttgat ttcataagat ataagactcc ttgaccattg tatgtaatac aatactctga 300
actctttacg tcttanaata attgtttgct tttacacgga tcaagaaaat aataataaat 360
aaatgaatga aatagtaatt ntacacaagt aaccttacat tatcattaat ttatttctaa 420
attctataat tggttctcaa t 441

<210> 16953

<211> 393

<212> DNA

<213> Glycine max

<400> 16953

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ttgaggcaat caaaagcctc ttgcactctg tcatlaaagt caaactccac ctctctttgc 120

aacaagttgg acagtggaag ggctactttt ctaaaatccc ttataaagcg cctgtagaat 180
 tctgcattgac caagaaaaga tcacacctct cgcacacaag aggggtaagg caattgtgaa 240
 ataacagaaa tttttgcagg atctacttca atacacctat tggaaataat gtggcctaaa 300
 actatacttc gctcaactat aaaaagatat tttccaaaat ttagaacaaa attactttaa 360
 atggaatgat cttaaaattt ttttaaaata ttt 420

<210> 16954
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 16954
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 caattcctca ggggcttct ctctctgtgc cagcatcttg ggatgttccc agcctttgat 120
 gacagcttct caggttctgc taccagtga tttgaggaag gccaccattc ttgctttcca 180
 gtattcatag ttgcttccat caagaattgg tggactgttc actggctctc cttctttctc 240
 catgttccat agaatttctc tccccacatc tcaactctgtg attgogagtg ttggctctga 300
 taccattga aattctgata ccatgggaca gatgtctgac aggatgtcac gacatcacgc 360
 ttccagaacat gcagcatatg tg 382

<210> 16955
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 16955
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 ttccagaacc caccacgtcc attacgagtt taacgtattg ttgtttgggt tgtgcaacgc 120
 accgtctctc ttccaagcca ccatgaacct gctttttcca tcttatctcc gccacttcat 180
 catcttcttc ttcaacgata tcttcataa cagttcttct ttccaggctc acctgagcca 240
 ttgggaaact gcttttcagg tcttcttga caatcattct gttttgaaat tctctaaatg 300
 ttcttttctg cagcttcagg tgaactacct tggacacatg gttctctgac gaggagtggc 360
 acctgtgggt tctaaagtcg cagccattca tcaatggcat gtctctcatt ccattcaaagt 420

agtttcgcac tttctaggcc tcgca

445

<210> 16956

<211> 389

<212> DNA

<213> Glycine max

<400> 16956

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actatggcat cattctctggc gctaaactgc taggagttgg aagccatctt ctctattaaa 120
ttctctggctt cagcaggagt catgtctcca agggctccat cactggtaga atctatcata 180
cttctctcca tattaactgag tcttccataa aaatattgga gaagaagctg ttctgaaatc 240
tcatggctggg ggcgaactggc acatagtctt ttaaactctt cccagtactc atacaggctc 300
tctccactga gttgtctaat acctgagata tatttccata tgggttgggt cctggaagca 360
tggataatgt tttctaagaa tactctctt 389

<210> 16957

<211> 438

<212> DNA

<213> Glycine max

<400> 16957

tcaagaataa tgacatcacc caattattta tttcccgaag ggaattctat aaataggcct 60
cctattttta atggcgctggg ttaccattat tggaaaaccc gcctgcaaat ttttatagag 120
gtaatagatc tgaatatctg ggaagcaata gaaattgggc cctacattcc cactatgggtg 180
gcaggaaata caaccataga aaaacctagg gaagaatcga gtgaggaaga aaagagatta 240
gttcattaca atttaaaagg caaaaatata attacatctg ctttaggaat ggatgagtac 300
tttagggtat caaattgtaa aagtgcataa gatatgtggg atacctaca attaacacat 360
gaaggtacaa cagatgtaaa aagatctagg ataaatacat tgactcgtga atatgaatta 420
tttagaatga atccaaat 438

<210> 16958

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 16958

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tgcattgtcca agttttcttgt gccataccca gggatttctt ttgatagata atagacatgt    60
tatctctaga ttgataggtt gattatgatt aatctatata agttttctt tctctctagt    80
atctctctct tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt   100
atcattgtcca atctctctata atctctctat atcattgtcca atctctctata atctctctat   120
aatatgtaca tctctctaatgg gaggataggg atcaataactt atctctctctt ctctctctctt   140
ttctctctctg aaaaatgattg ctccaccatg catgagggtc agacattgga atatacatctt   160
tctctctctg atgtgtatgtg agcagccact gtccagggtc catgattggt gtgttttctgt   180
tctgtgttgaa tatctctctga acaag                                     445
  
```

<210> 16959
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 16959

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agctcttcttc tatctgcaat gttaacaac ttaaaggacc aatgtctgat tctctctact    60
atctctctcca caagaggcag gtaatgatgg acattgagtt tcttgcaaga caaaggaacc   120
cccaaatatc ggacaggcag agatccctct tcaaaccttg tgatcttctt tataactcga   180
atgatgtcac aattcaagcc accacaaaac accttacct ttgttggtt aatctgtagt   240
ctgttagact taaaaaagaa actgaaagcc tttagaatca tctctataga ctctctatca   300
ctctctacaaa gaagaagaac atcatctgca aaggggcaaat gagtaatctt caatcgtcca   360
cattcgtctgt gattattaaa gttaggatct ct                                     392
  
```

<210> 16960
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16960

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ctcagctatg ctctctatct aaaaagacc cctctcaaaag catttccaac aacagcagaa    60
taattatgat ctctcaagca acagatacaa tccagggttg aggaatctat caaattctag   120
  
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atggacaagt cctccacaac aacaacagcc tgtccctacc ttcacagaatg ttgttggtcc 180
aagcaagcga tatgttccct ctcbaatgca ataacagtag cagaagtccac aacaaagaca 240
acaagcaact gaggtccctc cccaaccttc cttagaagag ttagtgaggg aaataacct 300
cctcctatg cctctcact aagagacag agctccctc cagagctcga cactctcga
cagagcaga gctcctcga cctcctcaga cagctcaga cactcaga cactcaga 400
aagagctgg ccaaatccga aaatg 446

<11> 16961
<11> 365
<11> DNA
<11> Glycine max

<401> 16961
agcttatcac ctatgcttct ccttcttctc ttgaaaagg gccaggagag acacaccaga 60
aaccttcacg accttgaacc tgactccagg aatctcacc acggcatgac cttttcgtcc 120
aaatccagct atcatgactt cttctacaa ccatcaacca cataacatta ggataagcat 180
atcagcacca acataacagc aaaataaagt aaatatgatt gatgaatcac ttacattctc 240
ttcaatataa ttttagcaac cgtcatttgg cacaatgca gcaatcttct tccatttttg 300
atgagttgac cctggcacat tttcaatggc agagttgggc tgccttacct ataccactgg 360
catag 365

<110> 16962
<11> 444
<11> DNA
<11> Glycine max

<22> unsure at all n locations
<400> 16962

tctgttggga catcttgatg caatctctcc taggaaggga ccaatcacta gaacctgag 60
caagaggctc caagaagatt gggctagagc tctgaagaa ggccttaggy ttctcatgaa 120
ccttagggta gatttctgag cccatgggcc aaggttgggt ccaattatct ttgtacatat 180
tagactagga tctcattata ttgggtcctt gctataggg cctcatattg taggttaggt 240
acctagaaa tataggattt ttcagcctt gctcttttg ggcacctaga ctgctttta 300

tattaggggt agtntgttaa ttccacatgc actaagtgga tttttgatgt gtgtgggtgg 360
aaataaattt aattgaattg gtagaagccc aatccaatta aatnttagag ggggaggtga 420
gcatttgctt actacacccc attg 444

<211> 16963
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16963

tataacatga ttntgtgttn cacatccctt ggaacatatt ttgatttato attcaacaaa 60
gacaagggac caccacactta cagaattcaa ggtcaatctt gccatctaat agggagttta 120
ttaccaatgc caggaaaacc tcttaaattt tctcacttgt atatctatgg tacagagaat 180
aaaatccaaa atagaattgg aggttaagg taaactataa ttcttataac agatactaaa 240
gtcataataa taaattgatt gttcttaggt tatattaact tacaagttta ataatgcaga 300
tttggggaacc aacttgatcc aaagattggt gccaaagttaa aagatatggt ttaccatcat 360
aatgtctttg ctaaatcttt cggaatggca aaggaaatat ttgagaagat aaaatccat 420
gatctgaaat tgcaatagat atctc 445

<210> 16964
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16964

tcacaaaagt ttatatgggt tgaaacaagc accgttggctg tgatacaaaa tgncaatga 60
gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaagaa 120
atatactaat agttatgtta tcattgtcgt gtatgttgat gacatgttga ttgcaggatc 180
tagtatgaca gatattaaca agttgaagta gcagtgggca gaaaactttg aattgaagga 240
tcttgggtccg gctaaacaaa tctttgghat gagaattctt agaaaacagat cagaatgaat 300
cttaaagcna tctcaagaga aatatacaca caaattgctt gacaggttct aacttggaga 360
ttctaagacc aggaataccc ctctgggac tcatttgaag ttttcaaga agcaatctt 420

gcagacagat gaagaaa

437

<110> 16966
<111> 436
<112> DNA
<113> Glycine max

<400> 16966

ttcattccgga agtcagatgc agagccataa tatatcgagc tgcctccgaa ttgaaataat 60
aaagtctctg agaaattgaa atgatacataa cttttcactc agatgtccga ttcagacgca 120
taatatatcg agacgctcga aattgaaacta cggaaagctct cgagaaaattc aaatgattat 180
gaattccctac tcggatgtcc aattgaggaa catcagatat cgagacgctc gaaattgaa 240
aacggaaacct cttatgaaat tcagatggtc ataacttttc aacggagat ccgattccaag 300
cacatcacat atggagacgt tcgatattga accacggaag atctcgagaa attcaaatgg 360
tataaacttc tcaatcggat gtcgattcca cgcgcctgat atatcgagac gtcctaaaatt 420
gtacaacgga agctct 436

<210> 16966
<211> 438
<212> DNA
<213> Glycine max

<400> 16966

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acatatatgt atctctcatt ttaatttcag aaataacctt tgattgttga gcagttatac 120
ttggctaato aagagaaaatt ccacaaagtg gctgacaaaa attactggaa agctattggg 180
gagatcattc ctcgagaggt tcccaacatt gagaagaaaa gaagcaaagt ggatcacgag 240
aataagccat caatcacagt cgtccaaggc ccatagcctg gctaaccac acatctttct 300
aggatgaggg agatattgtt gaagctgaaa catcacccac cagctcacat gattccccct 360
cctaactgcac ctgctaaaga cgcctatgat gggaacgatg gaaaagacgg aatagaaaac 420
gcattctaaag ccaatgga 438

<210> 16967
<211> 389
<212> DNA

<213> Glycine max

<400> 16967

agcttatgct tttctttata ttgtcacaca gatttcatat tcttaatggo tgetgttttt 60
ttagcactt tctatcttgc ttgctggcct tcttactaca tgggaccca tcttaatttt 120
ttgtgcttgc tcttcttgc ttgctgaagt gagaaagttc tgtcttata tgaatttggc 180
tataatcact tctatgtcac gatttaagtc ttgtgttgat tgttttagagg ttggaacctg 240
gtacaaaaat ttggtggcac agcaccggtt ttgtttggtt cactgttttt ccatttgtga 300
aagatatttt ttgttaatta gaatcaattc cagtgaagt gggaaccact agctttctcat 360
tctctaatg tctgttttgg caataaaaa 399

<210> 16968

<211> 444

<212> DNA

<213> Glycine max

<400> 16968

tcccatctt cccagcacca accaccaaca ctccagaatc tgcaaatgag gaatccggta 60
gcttcatcag tgcaagctcc acagcagccg agcttacaga aactgatcca gatgaaatgt 120
tagctctggg tctaacccgc tccccaacgc atatcgctg cttgaacaaa cactgattt 180
tcttatcaaa accaggaact cctgtccag ctttcacaa cgtcttcacc tgagcaagaa 240
tttgaccttc cccaagaaca agtgagtcaa gccctgacgc cacttcaaat agatgctgcg 300
cggtgtacgc gttatacagc aaaacttggg gctcccgag ctcaggtatt gaaatccact 360
cacttaacaa aaaaacacaa ccatgagttt tcttttccaa aaaaaacaa gaacttagca 420
tgggttaaac acctatttcg tcca 444

<210> 16969

<211> 416

<212> DNA

<213> Glycine max

<400> 16969

tgtcaaatgg aaggatagga taccctatgc ttctggaat tccaacccaa cagtgtctat 60
tattaggaga gaactctgca agtgcacac caccagaaaa ca'gatttga atgcaagaat 120

atatgacata gtaaatatat aatctaaaaa tttacttttg ttataggtta atgcattaat 130
 tatctcaaga ttaaattaac acattttttc tctctctctt ttcaacaatg gttgcgagag 240
 agagcaagta attttgagaa ctcaaaaactt gaaaatgaat gtaacotttag gtaaagtttt 300
 gaaatattt aaagattgt gattcttta aataattat atagaaagg aaatattt
 tttttttt gtaaatat aattttttt aaattttt aaataattt tgaatc 410

<410> 16970
 <411> 392
 <412> DNA
 <413> Glycine max

<400> 16970
 agcttgacag gttcatgtgc aggtgcaggt gctgctgcta gtggaggcac ttaaatctgc 60
 ttgcacagac taatggtgat ggcactcaca tttttogaat ttttcacagt ctgtgaaggc 120
 aattgtcag aattttagga ctgagcttgg ttcaactgag tagcatctg cccatttga 180
 tttatcagac tctgaatgga ggcctctgtc tcttgctaaa attgcattt ctggatgggt 240
 atttgcctca ctgctcttc taaggaaggt tgcgaagggg ccttagttgc ttgttctct 300
 tgttgttgtt gttgttgttg ctgcattgga ggaggaacat atggcttgc ttgaaccaaca 360
 ccattctgga aagcatggca tgcctgttgtt gt 392

<219> 16971
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16971

ngaaggacat gacaaaagtg tgacttatat atgttgtaat atggtgttagc aagcaaatgc 60
 tcaactcccc ctctaaaatt taattggatt gagcttctcc caattcaatt aaatttattt 120
 tcaaacacac acatcaaaata ttaacttaat gcatatgaaa ttacaaaact acccttaatc 180
 taaaaactag tctaggtgcc ccaaaaatac agggctgaaa aatcatacat ttgtagggtt 240
 ccttaactac gttatggagc cctaaaataa agggcccaaaa ataattgaaa cttaattctaa 300
 tatctactaa aataagtggtg ctacacatta gcccatgggc ctaaaactta tcttaaggtt 360
 catgagaacc ctanggtctt ctcttgcatc tctagcccaa tctacttgga gctctctatc 420

caatgccctt gc

432

<210> 16972
<211> 438
<212> DNA
<213> Glycine max

<220> unsure at all n loca
<223> 16972

atgaggggaac cggccattnt tcataataga acactggtaa tgggtctact atcattgtta 60
tcatttcttt ctccgtcttt gaggggaacca ctggggctgc cagatctctc cacctttggg 120
tgatttcttt gaaagattca tgcctccttt ttgcacatgt tctatagttg cactctatcc 180
ggagccatat cagaattgta ctaatactgc ctaacgaagg caaccattag gtcttttcba 240
gaatggactc gggaagggtc caagtttagt taccaggtaa caactacgt agtaagaatt 300
tttgggaaga aatgtatcag tagttctca tcttttgcgt atgcctccat cttctgacaa 360
tccatcttta gatggttctt gcggcaagta gtccctttt actctctggt aatcgattac 420
catattgttg tcatcgat 438

<210> 16973
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16973

tagcaaagaa aaagcaattg anaaagtga actctgtctt gtttatcgtc tgggaagtta 60
tttttcaaat aattgatata aaagtcaatg atagtatcat taaggcattt ctacgcgtgt 120
aaaagctcaa tctcgtcttt ttgatacaa acagcatcag ggtccctctt tggatacgc 180
tttttaaatt cagcagaatc atgtctcact atctgggtctc ccaagttaat ttcattctct 240
gagggattga agttgaagta gaaatcaaag aaaatgtag acttgatttt ttttttttt 300
tatgagggaa gaaagaaata aaatataagt aactactgtc taacataagt aacactgcac 360
ctaaagaatc ttgaatctag acatcttctt ataaaattac ttttaaataa gataatatga 420
atgcatttt ttt 433

<310> 16974
 <311> 432
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <330> 16974

tatgtgtgcat atattttaa tagatcttct tttttttttt tttttttttt accacagtag
 ataatatata aattctccag caatagataa tttttttttt ggagggaatca ccttatcttc 120
 atatgggtcca ggccttagca acaataacag cagcctgtct cttccttcca aaatgctgct 180
 ggcctcaagca gaccatacat tcttccacta atccaacaac agcaacaacc ccagaaacag 240
 ccaacagttg aggcctcttc acaaccttcc cttgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcttccattc agagcttaac caatcagata 360
 ggaacattgg ctaccaatt gaatcaaaa caataactga attctgacaa gctgccttct 420
 caagctgtcc aa 432

<310> 16975
 <311> 390
 <312> DNA
 <313> Glycine max

<400> 16975

agcttctaga ttagtgtact aaacaaccgc ggtccgggcc aagctatctt ggaaaaagtg 60
 tattaatagt ttctcatccc tagagtgggc gcccatcttg cgacaataca tcttgagatg 120
 gttcttggga caagtcgtcc ctttatactt gtccaagtcc ggcacctga attttggggg 180
 gataacaaca ttgatacca agcaaagatc cgcgaatgga tttcaccaa agccttcaac 240
 agccttcaat ctctctcga ggagatcgag ttcccatctt tcttcgatcg tgggggtgg 300
 tcttctgtg gacaagatta ttggtgtgc tgtgaagttg ggatgatgca aagtgttgcg 360
 tggcgcccc tcgacgagga tcggtgggta 390

<310> 16976
 <311> 446
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 16976

tgaagganaa ctggatgogt tggccaactt ggtaacctag ctggccttga atcagaaato 60
 tglactgtc gcaagggttt gtggtctgtg ctctctgtgt gaccaccata tagacctttg 120
 ccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgtgt caaatattta 180
 caatctctt ctctctctt accacaaaa caaaccaaa cagacatatt atgacctttc 240
 ctctctctt ctctctctt caaacatgtt gctggcccaa gcagaccata 300
 ccttctctt caaatctaac aacaataaca accccagaaa caaccaacag ttgagycctc 420
 ccccaaacct cccctogaag aacttg 446

<210> 16977
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16977

tcagcccaag cctcttgaaa tgcttgcatt gcatttcaat gtatatacag atgcttctat 60
 tacagtacca acttggcaac ttccacaaaa aataataagt ataataaaaa aatacaatac 120
 caagtaccaa ctttaagataa caatttaatt agaattatct actgtcattc aattacaagt 180
 tgcctatgtgt agtaaaattta tcattttttt attcaaatct atcaattttt atcataatta 240
 ctataaaaagt tatatttatg atgatttcta attgattgat attataaatt ttttaacact 300
 taaatgtgtg tgcataaat gtattgaatt taaaaacata atttatttgc atatttaata 360
 gcttcacaat taaaatacgt tttctatagc ttaaaaagat actatattaa atactaggtg 420
 gggctgagat cactg 435

<210> 16978
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 16978

acattatct ccttcaactg cacaaggctc ttaatatctg aagagttatc ttttggaaac 60
 ttaccccgac gaacacactg acaaaaaact atctctctct tcttggacaa agtatggcag 120

gctgggggca agtaaatatt ctteccatca gaccttggat gcaactgtga tegtataccc 180
 atatcageta gatcttgacy agtattcaag ccatecttca tcttgcccttg aatgttaagg 240
 agogtcccaa tcacactgtc acaaacattt ctccacatgc atgacatcaa tacaatgtct 300
 aaogtcaaga tcttctcagc agggaagatc aaagataatt gacctcttct tccatctgca 360
 tcttctcagc tcttctcagc agggaagatc aaagataatt gacctcttct tccatctgca 388

<210> 16979
 <211> 439
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 16979

ntgtgtgaga aacaaagtgg caaacttata aaagtcttga taagtgacaa gggaaaagaa 60
 gtgagtcttg agaggcagtt gactgttggc tatcacctc aacaaaatgg tgtatctgaa 120
 aggaacaatc aaacgtgat ggagaaagga ataccaaaag aattatggcc tgaggctatt 180
 aatacaaccc tgtacttgtt gaataggtgc ccaacaaaag cagtatgaaa tatgacacca 240
 ttgaagcat gaaatggaag aaagccttta gtgaaccaca taaaattttt tggatgtgtt 300
 ttgctacgct caagtctcta aagaaaagat tacaagctt gaagaagcaa gtgagagatg 360
 catctttatt ggctatagtt ccgtgtcaaa gggctataga ctctacaact tgaagaccaa 420
 gaaagtgate attagccga 439

<210> 16930
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 16930

gatctgggtg aaatatcttg ctagaaggtg ttctcattat gcttgtattc caagcattcc 60
 tgacataact cacttggcac ttgaatgtgt ggaaccagc gaaccatatt atccctatgt 120
 acgaagtgtg gatctgaaa ttgagatgcc caaacttata atgcacaaagc cacttacttt 180
 tgcctactgt ttgggtaga ccttcactgc ccataccatt aattcctacc ttaaaagatg 240
 ttctcttga cataagatcc tttaaaaacta gtctttctt gtgtgctaac accattagca 300
 cattatctc cacttcacac acaaatctt tctccaggaa ttgaccaagg ctttaagatg 360

tatttcttcac ttctgggcaca aaaagcacac cagatatgaa agattgttta ccac 415

<I10> 16981
<I11> 375
<I12> DNA
<I13> Glycine max

tatttgaago ttgttcaaac tatcaagagt cacattctaa caacaattgt tccagcttgg 60
agaattccac aatggatgga tacatggagc tataagaaca attgataact gtttaaatatg 120
atttattttg ataataagaa tatattgaaa atatctttaa aaatatttat ttaacagtta 180
ttcttggctt aaatattaag atttgatctt tttcttattt atgacgttgc catatgaaaa 240
tgagagatta aaagagataa agatcgaaaa aatatccaag atatcaggaa atcattacta 300
gtataacaaa tcttaaaagt atcacaataa tcaataatga agatttttaa catcacgccc 360
agttcactac aacaa 375

<I10> 16982
<I11> 401
<I12> DNA
<I13> Glycine max

<I23> unsure at all n locations
<I40> 16982

agcttgttac aagattctcc ttgcctggca cttcaaaaac ttctgggttg gtcatataga 60
tgtcttcttc taaatcccca tgcaagaatg cagttntaac atctaaatgc tccaagtga 120
gattctctgc agctactatg ctcagaataa ctctgatggc agtcatcttt acaactggag 180
agaagatctc ttgtgaaatc attccttgtt tctgttgaaa cctntccac acaagtctcg 240
ccttttatct tcttctacgg tcagattctt ccttttagct atagaccac ctattctgta 300
atgcttctct tcttcttggc aatnagttt aagaccagt cttattcttt tgaagggatg 360
tcatttcac ttctatcgt agctccact caatagtgtc a 401

<I10> 16983
<I11> 373
<I12> DNA
<I13> Glycine max

<223> unsure at all n locations
 <400> 16983

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 tctctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 120
 tctctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 180
 tctctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 240
 tctctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 300
 tctctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 360
 tctctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 373

<210> 16984
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16984

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 togagacgct caaaattgaa tgttgaacct ctgatgcaat tcaaaggaca ataacttttt 120
 acctggatgt ctgattgagt cccgtaatat atcgagacgc togaaaatga atgttgaacc 180
 tatgagccaa ttcaaacgac cataactttt tactccgatg totgattgag tcccataata 240
 tctcgagagg ctcgaaattg aatggtcaac ctcttagcca attcaaacga caataacttg 300
 ttactcggat gtatgattga gtcccgtaac atatcgagac gc 342

<210> 16985
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16985

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 gaggcagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120
 aatcagataa agcatctaaq acctgctgcc atgtggtatc aacaagaggg agccgcccag 180
 cattgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240

ctaaaaataag aagtcttttg agaattaaat gcatggcatt atctataaga cacattgttc 300
 aaaatgagac aaacccaaag gaaggcaagg attctttgca aattcccaac accaacacca 360
 agagcagoot accattagat aaaaaagcaa gcagaaatta agtggtgata acaaaaaacaa 420
 attctatctt gctctcttat atctaatctt aaac 480

<210> 16986
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16986

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 tgcgctttac aagttgccat tgcgggttcc caaagatgac caagaatatg ctggtttatg 120
 gggagaagact ttgtgttggc ctctgggaaa gctttctgaa gacaagcctg gaaaggcttt 180
 attctttctt ctgctctctt atgaggagtt ccagggacaa cagcttctca ttgcaaccaa 240
 aattttggaa ggcacacact atgtgttaca tcttaacggt tcancaattg ttacagcaaa 300
 tateaatgat ccttcatecc aaccttttct ctgggacact gatgcagact 360

<210> 16987
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16987

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 ttcaaccgat gaagacacta acaaaaaattt atctctctct tntggacaa agtatgacaa 120
 gtggggggca agtaaatctt ctctccatca gaccttggat gcaactgtga tcatatcccc 180
 atctcagcta gatcttgatg ggtattcaag cctcctctcg tcttgccctg aatgttaaag 240
 agagtcacca tcaattgttc acatacattg tctccacat gcataacatt aatacaatgt 300
 ctaacgtcta gatcaaacca gtacggaaga tacaagagaa tggacctctt ctcccatatc 360
 caagtcttaa ctttatctct tcttgggttc tctccaaata cagtat 420

<210> 16988
 <211> 357
 <212> DNA
 <213> Glycine max

 <400> 16988

 atttgcaag attgttcttc attctctaac cctgctttaa tttttttt attctatct 60
 ctatccttg cctctctctc cactctaac atgtgtgac ctctctaatg cctctctgct 120
 tttgttgctt ttctctcttc attgcaggta tatccagaga acatgtgcca cctctggggg 180
 aggaactatat gaagggctgg actggctctc caacaatata gctaacaagg tatgccttga 240
 aaatctgcac cctttgtgtt cgttgcttga cctgtgatac ctctattctt ggttactttt 300
 ctggatcaag cctaagggaac attttgttga atgcccctat cttcttgctt gctttac 357

<210> 16989
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16989

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 ggtgttatat tataataaact ggtcattaat ctaaaatata tcagcccttc gtccactaga 120
 ccagcatggc tacaagcaat tagaactgcc ataaacacca tcttatctgg tttaatatga 180
 tgagaatcat gaaacaggcc aaatacagtc taaaggccca agtggagaag gacgaaggcc 240
 caagtggaga aggacaaagc ccccgagtgg agaatgatga aggcccaagt ggagaaggat 300
 gaagggccag aggcagagac actatcaaga ctattaattg ttgttgaagg cccaaactaa 360
 ttatgaaggcc caagttaaact aagtttctag ttataattta tttttattgg aattttggcc 420
 tanaactgtct agaaagccca tgtctatctt tatct 455

<210> 16990
 <211> 429
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16990

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tntcagaaca acaaaagtgtt tatcctctca aagagcaaat tcattttatc ctcttaagaa 120
 ttcttgggoc aattcaattg caattcatta aggaattatt tgagtgcaca atctgtaaaa 180
 tccatctctt totagagaga ttgtttcttc ttcttctctt cattttctaa gggattaaga 240
 gactgtagt ctcttctctt aaaddctct taacacaaaa ggaagcattg ttcttctgtg
 ttgaaatt gaaaggaa ttctctctt agtgaattc tcaagggat tcttctgtga
 ttgaggtat gcacaagggt gtggtcgaac cagtataaaa ctgagtttgc attctctctt 400
 cctttaatc 429

<210> 16991
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16991

totagaattg catgtaaaaa atatatggca taatttgctg taaaggaagc ttccactca 60
 agagtgttag tacatccatt ccatgttctt aggatcaaca aaatgcttta atgtgctaga 120
 gctgatagtg tttagtctgg aatcagaggt gcctctagaa agtcacaggg aacatgtgct 180
 agagtcacca ttggtcaggt tcttttctt atgtgttgta aggagaacaa caatcatcat 240
 gcacaaaagg ctctttgtgg tgctaagttt aagtcccta gtctcagaa gatcatagtt 300
 agctgggtgc agaccctaatt ttcatatggg ggcaatcatt tgcaaacatt tggattcttt 360
 ctagccgaat tgagctgctt aacacttcat ttgcaatca ttccacttn gaagtcatga 420
 ttctgcacac ttga 435

<210> 16992
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16992

agcttacta atagaatcat cttagatga ctgttttggg agtctcttca ctaggctatg 60
 ctcttgaagc tttagatga acctccagct agcatggtca aactctctat tccatacna 120
 gtaatgctct ttgactaaaa gtaagcatga cacttttga ttgatatgat caccaagttt 180

aatcttatag tgatttccctt gtctcttagt agacaagagt aaagagttgt cctttgtttg 240
gatgataaac atatcccttg taaagttaaa gytgacattg tatccactat catacaattg 300
acttatgttc aacaaattat gcttcaatcc ttttaacaagt aaaaacattat tgatagaagg 360
ataataaaga ataaaaact tacctacacg tttta

<210> 16993
<211> 462
<212> DNA
<213> Glycine max

<400> 16993

tatgttgcaa acatctacaa tagacctcct caacctcagt agcaaaaatca gccacaacag 60
ataaactatg acctctccag caacaggtac aatcccggaat ggagggaatca tcccaacctt 120
atttggtoga atctctcaca acaacagcaa caacaacaac cttactttca aaatgtgttt 180
gtcccaagca gaccatacgt tctccacaa atctagcaac aacagcaaca acagaaacaa 240
caaacagtta aggcctctcc gcaaccttcg cttgaagaac ttgtgaggca aatgactatg 300
caaaacatgc agtttcagca agatatcaaa gctccatcc agagcttaac taatcagatg 360
ggacagttgg ctacacagtt aaatcaacaa cagtcccaga attctgatag attaccttct 420
caatctgtcc agaatacaaa aaatgtgagt gccattacat tg 462

<210> 16994
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16994

agctctttat ccaaggctca tcttggtggt gaagctcctt ctcccatggc ttattcccta 60
atggatggcg cctcctctca cctctctctc ttgtctctcc gctgcctctc catggtggaa 120
aatcactatt aaaggacctc atgaagctc anagatccaa cctccataga aaccccacaa 180
gcaagcttcc atcataacca ctctatttcc cctaccaggg atatccaaat tggtaactgc 240
accccccatg tacataacaa acataacaa tcacaatgac attatcaaaa tcaaaaacat 300
ctcactcaca tgcattatc atcatcaaaa tgcctccatc tcaattctat tctcaacatc 360

aabateatct catctcaatg acattatcaa catcaacatc atctgatttc aatgaag 417

<210> 16995
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <417> 16995

tatgtttcgt tectgagttt tccgactatg ctcttggttg gtggaacaag ctacaaaatg 60
 agagagcaag atatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120
 gaaaggggta tttgcccggc agttactcaa gggacttgaa attcaagctc caaaaaactaa 180
 cccatagcaa caaggggggt gaagagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 ctaattattga agaagatgat gaggttaacta tggctcgcat tcttaatggc ttgactaatg 300
 atatccatga tattgttgag ctgcangagt ttgttgaaat ggaatgattg cttcacaaga 360
 tgtccgatcc actagcataa tataacgag 389

<210> 16996
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16996

ntcatagttc aatcccgagc gtctcaatat attatgcgct tgaatcggac ctccgagtta 60
 caagttatga ccatttgaat ntctcgagag ctcccgattt tcaatnttga gcgtctctat 120
 atgtgatgtg cctaaatcgg acatccgagt taaaagttat gtccatttga attctctcgag 180
 agcttccggt gtccaatttc gagcgtctct atatgtgatg cgcctaaatc ggacatccaa 240
 ghtaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300
 ccatatatta tgcgcctgaa tcggacctcc gattgaaaag ttatgagcat ttgagttgct 360
 caagagcctt catatggtca attctagcgt ctccgatatat tatgcgcctg aatcggacc 419

<210> 16997
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16997

agctttagct attggaggga gaataaaaaca atcaaaaatc aatcgtacct ttcaagtnac 60
 gcaaaaattct ttttgcgggt tttagatgac gagagggtcag agcctccata aagcgacaca 120
 tttttctca gcttttata caatattttt tttttttttt ttgtttttt ttgtttttt 180
 tttagatct tttaga ca tttaga ca tttttttt tttaga ca tttaga ca tttaga ca 240
 tttaga ca tttaga ca tttaga ca tttaga ca tttaga ca tttaga ca 300
 caattcttct gttgtacct 318

<210> 16998
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16998

tgcagagctc aataattgat tggatagaga atcaaaacttt tatttatctg ttagatgaca 60
 ttctgtttac tcatgatcaa attaatctaa ttgttgaaat attttataat ttacaacaat 120
 aagtatctta acattttcag acaccaaatt tgatattata tattaagggtt agttcaaaat 180
 tgtagaaaact tcagcaaaat tttgaattaa tattctccca ttctatgttt atccacatag 240
 tttttaacta ataataagct taataacata tgcataaatg ttgaacaatt aaaatgctaa 300
 aaataacatg atttatgttt ttaatatcaa ttgctnggag ttcttgattt ctaacaacga 360
 atagagaata gcactacagc aagcacactg aaggaagagt attcataagg tgcaacatca 420
 gtataaaatg ggatagaagt gataaaaccac catca 455

<210> 16999
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16999

agcttgtatg atngatgggt gaggggaagg gggcgcaaga tntcgtgtgt gggttggcgc 60
 cdaggattaa gaggggttgc gagcgcgctg atgagcgagc gcgtaagatg aagaagcacc 120
 atggcgthaa gttcagttgg attttcaata aagaattgct ttgttgaaat tttagttaag 180

acttaagaga taagagatag aggtcaacgt gagtcaacag gtttttgggt ttgtgactat 240
 ttgagttctt gtttgtacgt ggcatttnga gtacgaataa tgaacaatnt aacatggatt 300
 ggtgtaatg gacattgttg gatccatggt tgttgtttctg gtggatataa aacatgtagg 360
 aatttttgt taacatt

<211> 17001
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17000

taagctctctt caactgcaca aggtctctaa tatctttaaga gtatctctgc tgaaccttca 60
 cccgacgaag acaatgacan aaacttatct tctctctctt ggacaaagta tggcatgctg 120
 ggggcaagta aattttcttc ccacagagac ttggatgcaa ctgtgatcgt ataaccatat 180
 cagctagatc ttgaagggtt ttcaaggcat ccttcgtctt gcttgaatg ttaaggagcg 240
 tcccaatcac actgtcaca acattttctt ccacatgcat aacatcaata caatgtctaa 300
 cgtcaatata acaccagtac ggaagatcaa agaaaatgga tcttttcttc atatgcaact 360
 ctgaacttta tcttctcttc ggtcttccc aaatatagta ttcattgtgtt gaaccgctc 420
 atatacttc ccaccagtea atg 443

<210> 17001
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17001

agctttttaca cctttaatca agcttagttc aactgcaacc atcagaacga aaccttattc 60
 tattaccggg attatcatac acaattctaa aggttttttg ttggacgttc ccaaatatgg 120
 ttatttgact atcatcttta ttgtgaataa atgccaaaac agactgttta tcatcgaact 180
 catagagtae ccttgccggg tgaagttca ctgtgacgac aggaagagcg aatgacattt 240
 cagggaatnq ataafgafn ccagtaagat cataaacagt gtcaaatata ttgtgcgagg 300
 nggcagtggg atagttggac aaacgtctgt gaaatactga accga 345

<210> 17002
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17002

atctcttat aaaggtca tctttaggt gaagctctt attccatggc ttattcccta 60
 atggatggcg cctctctca cctctctctc ttgtcttcc gctgcctctc catggtggaa 120
 attcactatt aaaggacctc attgaagctc anagatccaa cctccataga aaccccacaa 180
 gcaagcttcc atcataacca ctctatttcc cctaccagag atatccaaat tggtcactgc 240
 acctcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300
 ctcatctcaa tgtcattatc atcatcaaca tgcctccatc tcaatgtcat tctcaacatc 360
 aacatcatct catctcaatg acattatcaa catcaacat 399

<210> 17003
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17003

tctanactnt gtacaagaat gaagctctga taccacttgt tagtctagtg gcttcagata 60
 tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120
 cttacttttt acttaagtta tgaattccct taatgacaat cttctttaat attaatccaa 180
 atgaagcaac tgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctccagtttta tactggttcg gccacacctt tgtgctacg tccagtcctc 300
 aagcaacccg cttgagagtt ccaactaact gttaaattcct tttaaaagtt ctaaacacac 360
 aangacaacc ctctctttgt gtttagagat tctntacaac aagagactca cagtctctta 420
 atcccttaga gaatg 435

<210> 17004
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 17004

agctttttaca agcttggaaac attcattccta tctctgacag ccaatgggtg agtctgttct 60
aagtagtccc gaagaaaaac agcctaaccg tgataaaaaa ttacaatgag gaggtagatto 120
taactggggt gagaacacat ttttttctt tttatcuaata tatgaggtg atcttactta 180
ttatgaaata ggtttgctaa gtaattctt tttactttt tttaattggt ttttggctta 240
tatgtaaatc actattgctc atgaggataa agaaaaatcc acattcactt gccctttcgg 300
tactttttcc tatatgatga tgcctttcag cctgtgcaat gcccttatta ccttttaact 360
gttgatga 366

<210> 17005

<211> 350

<212> DNA

<213> Glycine max

<400> 17005

agcttctttca tccagaccact tccagtgtgc tggaaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgcta tgttgccttg gatgatttct 120
ccagatttac ctgggtcaac tttatcagag aaaaatcaga cacttttgaa gtattcaagg 180
agttgagttc aagaattcta agagaaaaag actgtgtcct caagagaatc aggagtgcac 240
atggcagata gtttgaaaac agcaggttta ctgaattctg cacatctgaa ggcacactc 300
atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg 350

<210> 17006

<211> 337

<212> DNA

<213> Glycine max

<400> 17006

tgttgcaat agttatcaaa gtgcgtgatg agtgtttcat attgagcttg agttctgttg 60
tagcttgcac tgcacatgtg atctgatttc ttcccttatt gattgtgaac aacgagtaat 120
gcagatgcac ggcggggcag ttgggtcaaa tggagcactt aaatgcatat ttgaaagtgc 180
ttgtgtgctt tagagggggt aaggaggtta atcatgggtg gcacatttct aggggtgttg 240
atgcacacca tgaactctgaa ctctgtgctt gtttgagaca ttggaatata tctttttttg 300

taagggatga tcccctttga tgttttagtat atagctgata tcccatgtac agttatacca 360
 ccattagaat ggtataatca ccattga 387

<11> 17007
 <11> 171
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 17007

ttctattccta attttgaaat ccattgaaggt acctaatgt ctgaagttta tgggattaag 60
 atgggcattg accaatccct attttttgac ttaacaaaat tgcctagtga aggtgtacct 120
 ttggaggggtg caatgattga tgaatggaaa ttgattttct ctatgcattga tgtatgccaa 180
 ttgggtttgca ccaaccaago gcatatgacc ggaaggcttc ttgcgggttc attggccttt 240
 gaaagtgcga tccctcatta tcttatagtt tgcattttgc ttcttagatc ttcaaacctt 300
 gcttaggttt ctgaagaaga cctcattgtc atgtgggcct ttcataaagg tctacaaatt 360
 gattgggcac atcttgttag atatcgcatg cataaggcat cgcgattgaa tgcctcatta 420
 ccttatecto atct 434

<110> 17008
 <111> 456
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 17008

tcaagaaaaa gatggcctca gcaaattcct tattccaga ttggtattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagtccat caagtgaag cataaccata gaaaaacctt 240
 gagatagatg gtctgaagag gatagaaaac gactacaata caacctanaa gcaaaaaaca 300
 taataacatc tgccttagga atggatgaat atttcagagt ttcaaatgca aagagtgcct 360
 aggaatgtg ggaactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 ggataaatgc actaactcat gactatgaat tattta 456

<210> 17009
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17009

acgtctctcc tgggttcttt gagaagcttt ctcaagaggg tctcttgaga agctagatcc 60
 ttaattatcc aacacctctct attaaactaaa ttaacttctct taaaaataat taaggatgaa 120
 aataaaggcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180
 tatcaggggtg ttacaactct cccacctttt tagaaatttc gtctctgaaa tttaaccttac 240
 tcaaacaaagg atgggttgagc ttctcacatc tgactntcta attcccatgt ggcactctct 300
 cctgatgcac ctcccagat caccttgacc aacagaatct ctttccctct taagtgtttt 360
 gtttgcctat cctcgatcct canatgcaat gtttcatatg tc 402

<210> 17010
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17010

agctttacta atggatagta agaaccataa atacctagcc ccaccagtag gttacaaaat 60
 atttataaag tataaacctt acctatttaa agcctatgaa gagagagagt cacacagttt 120
 tcccatacaca aggtcatgtt aaaactcaac atgaaaagat acattcccta agttgatttg 180
 tgcctctcttt taaactgact actaaattga gagggacttt taaattactg aactattctt 240
 caattaacat taataaagga tcttggttn ctttgtagca gggctctctt gctgctccgg 300
 ttcttcaaca cctgacanaa gcagatttaa gcaagatgta ctttg 345

<210> 17011
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17011

agcttctaaag cataatattg tttgaagaca tcagagttca egggtgaagg tagctcttcg 60
 ccattccatgt tggtaagcac cagggctcct ccggagaaaag cccctcttcac aacaaaaggc 120
 ccttcgtagt cggggggcca tttccctcgg tggccttga cagcatggga cattttcttt 180
 aggttaagg atcctatag gaaatgggc aaggttact cctgttcgaa cgggtcttt 240
 attctttgct ggtacaagcg cccatgactc atggcgtta atggttttttttttttttt 300
 cngacatgat cctagctctt ttgagccac cctgattcct ctatccgga ctatggcnaag 360
 atccctaagt acgggaacttc tacttcnat ggtaacaccg cc 400

<210> 17012
 <211> 390
 <212> DNA
 <213> Glycine max
 <23> unsure at all n locations
 <400> 17012

tataatatat cgatacgtc gaaattaaac atcgattact ctcagganat tcaaatagtc 60
 ataacttttc acacggatgt ccggttcggg cgcataatat gtcgagaagc tcgaaattga 120
 acaacggaag atcttgagaa attcaaatag tcataacttt tcacacggat gtccgattca 180
 agcttataat atatcgatac gtcgaaaatt aaacatcgga aactctcgcg aaattcaaat 240
 ggtcataact ttccacacgg atatccgatt cgggtccta atatgtccag aagctcgaaa 300
 ttgaactacg gaagttcttg agaaattcaa gtggtcttaa cttttcacac ggatgtccga 360
 ttcaggcaaa tcacatatcg agacgtcaa 390

<210> 17013
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 17013
 agcttgtgag ttacaaagtc ttgaataagc aatratgtga gtatttagta ttcttgaata 60
 agcaaattat gtgagtggtc actctattct aatataaata ggggatcata ctcttgtatt 120
 tgggtgcca aatgaaataa aatcttttct ttcttcaac acagtgggat cagagcttga 180
 attctagagt gttgagaaag aaacactttg tgagttgaga aagacatact ctctgagttg 240
 agagatggca agcaatggct taagtatgtt tcaattccct cgtcttacca aagagaatta 300

tgataattgg tgtctgtcgca tgacagcctt gttaggttct caagatgcac gggagattgt 360
 agagaa 366

<210> 17014
 <211> 17
 <212> DNA
 <213> Glycine max

<22> unsure at all n locations
 <400> 17014

atactaagct tcaactgatg tccgattcag ggcacacata tatcgagatt ctcgatattg 60
 aacaacggaa gctctcgaga aattgaaatg atcataaatt ttcactcaga tttacgattc 120
 agacgcataa tatatcgaga cgtctgaaat tgaactacgg aagctctcga gaaattttaa 180
 tgatgataaa ttctcaactc gatgtccaat tgagyaacat cagatatcgt gacgctcgaa 240
 attaaacaac ggaacctctc acgaaattca aatgytcata acttttcaca cggagatccg 300
 attcatgcac atcacatatg gagacgtccg aaattgaacc acggaagatc tcgagaaatt 360
 caaatgggca taactnttca ctccgatgtn cgattcaacc gcctgatata tcgagacgct 420
 caaaattgaa caacggaagc tctcgataaa ttaaat 486

<210> 17015
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 17015

agctttcttca ttcaattttg accgtcttga tatgtgaagg gactcaatca gacatccgag 60
 aaaaaaacta ttgtctgttg agttggctta aaaccttcac attcaatttc gagcgtctcg 120
 atatgttaag ggactcaatc agacatccga gtaaaagtta tgggcctttg aattggctca 180
 gagcttcaac attcaatata gagcgtctcg atatggtaag ggactcaatc acacatccga 240
 gaacaaagtt atcgtccgtt gatttggctc agagcttcaa cattcaattt cgagcgtctc 300
 cttatgttac cggactcat cagacatccc gagaaaaa 338

<210> 17016
 <211> 432
 <212> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 17016

atgagccaaac tcaaacgata ataactntnt actcggatgt ctgattgagt ccgtaaacat 60
atcgagagcg tggaaattga atgttgaac tctgagcga ttcttcttcc aataactttt 120
ctcttgatg tttgattgag tctcttgaac atctgagac ctggaattg atgtttgaa 180
atctgagcaa attcaaatga caataacttt ttaactcggat gttctgattga gtcccgtaac 240
atattgagac gctcggaaatt gaatgttgaa gctctgagcc aatacaaaacg accataactt 300
cttaactcggg tgtctgattg agtcccgtaa catatcgaga cgtctgaaat tgaatgttga 360
agctctgagc caatacaaac gaccataact ntttaactcgg atgtctgatt gagtcccgta 420
acatatcgag ac 432

<310> 17017

<311> 435

<312> DNA

<313> Glycine max

<400> 17017

tgtttccagtc tcaaatataac caatgaagta atattatggt tcaatatcat ggaagtaagc 60
acattcgggtc caccatgaaa ctttaattga tttagagcaa ataactcatg ataatatcac 120
ccccacacaa atgaatcacg tacgttttct acaagctcca atgccaggtc ctttgcctgat 180
tcaccatcaa gataatacac tgacccaatt aaattgctaa aettatcgac accttccagg 240
acaagccgaa cctacatacc attaggatta gaaaattttc agaattgcaa aatcaatata 300
aettatagaa acacattact cactttctga ttcaatacac gcattctcagt gaaaaattta 360
gcattcatgtg caaaaggatc ggctgcagtt tcagcaacag atgttgaaac tgcaagcctt 420
tgtgcagatg taagt 435

<310> 17018

<311> 411

<312> DNA

<313> Glycine max

<400> 17018

agcttattac ttttatttcg agcgtctaga tatattacag gactcaatca aacatccag 60

taaaaatgta ctggcggtta aatttgctta actctccagc tttaaatttc gagcgctctg 120
 atatatacg ggaactatata agacatccga gtaaaaagtt attgtcattt gaatttgctt 180
 agagattcaa caticatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240
 agtacaaaag tattggcctt tgaattctct caagatctca acatccattt tttatctctt 300
 cgaatataca agtaattcaat tgaagctatct gagtaaaaat ttaattctctt tgaatttggt 360
 tcagagcttc aacattcaat ttcgagcgtc tgcctatatt acgggaactat a 411

<210> 17019
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17019

ctaagctttg agcaaatcca aacaacaata actttntact cagatgtctg attgcttttc 60
 cgaatatata gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaat 120
 aactttttac tcggatgatt gattgagtcg cgtaatatata caagacgctc aaaattgaat 180
 gttgaagcta tgagccaatt caaatgacaa taacttttta ctcggatgtc tgaatgagtc 240
 ccgaaatata tcgagacgct cgaacgtgaa tgtgaacctc tgagccattt aaacgacaat 300
 aactttttac tcggatgtct gattgagtcg cgtaatatat cgagacgctc gaaattgaat 360
 gttcgaagct t 371

<210> 17020
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17020

tctttatttt caattacgag cgtctccata tattacggga ctcaatcgga catccgaatt 60
 aaaagttatt gtcgttagat tttctccaga gcttccgatt tcaattacga gcgtttcctt 120
 atcctacggg acataatcgg acatccgagt caaaaagttat tggtcgttga atttgcctad 180
 agcttcagtt tcaattacg agcgtctcgg taaattacga gactcattca gacatccgaa 240
 ttaaaagtha ttgicatttg actntccata gagcttccgt tttcaatttc gagcctctcg 300

atatattaca gggtccatc ggacatccaa gttaaaagtt attcgctggt gattttttctc 350
 agagcttccg ttntcaatta cgagcgtctc gaatcctact ggaccaatcg gacat 415

<210> 17021
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17021

tggagtttc caagtgcacaa ttgncctct tctttaanc attcttcttc tggttcaat 50
 tcttcagtgg gctttccttc tgtgtccagc attttgggat gttcccagcc tttgatgaca 120
 gctttccaag ttctgtatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
 tcatagttgc ttccatcgag aattgggtgt cgttccactg gtcgccttc tttctccatg 240
 tccatcaaac gtatctctc gatctcactc tgtgatttc agtgttygct ctgataccaa 300
 tggaaattct gataccaggg gacagatgtc gtacaggatg tcaagacatc acgcttcaga 360
 acatgcagat tatatgtgtc cgtatgaaca gattaaacca agtaataaca caagagaatt 420
 g 421

<210> 17022
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17022

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 ataggttggg cctcccagaa gagaatggag tcagcaccac ttttaacatt tctgatttaa 120
 tctcttttgc aagtggagct tatattgagg aggaggaact aacaaatntg aggtcaaato 180
 ctcttcaagg ggaaggggat gatgcaatc tccctaggaa tggaccagtc actagaatca 240
 tgagcaagag gcttcaagaa gattgngcta gaattgtga agaaggccct anggttctca 300
 tgaacctcan ggtagatttc tgagcccatg ggccaaagtt ggggtcaatt atctttctac 360
 atattagact angatgtcat tatatttgc ctgggattta 420

<210> 17023
 <211> 359
 <212> DNA
 <213> Glycine max

 <400> 17023

 ttttcaata ttctatctt tttttttttt tttttttt tttttttt tttttttt 60
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 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 180
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 240
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 300
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<210> 17024
 <211> 396
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17024

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 ttataaaagt ataaaccgta cctattttaaa gcttatgaag agagagagtc acacagtttt 120
 cccatcacaa ggtcatgtta aaactcaaca tgaaaagata cattccctaa gttgatttgt 180
 gctctctttt aaactgacta ctaaattgag agggactttt aaattactga actattcttc 240
 aattaacatt aataaaggat ccttgggttc ttgttagcag ggtcctcttg ctgctccggt 300
 tcttcaacac ctgacaaaag cagattttaag caagatgtac tnttgggggtt tccaagtgtt 360
 ggaatcaat ggtgtgcagt gctttctcac acggac 396

<210> 17025
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17025

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 tgggtttgag gcaatatgaa gagcatctct attatcacaa tacaacttca ttggcaactc 120

ttcaaaaaac ctcaattcct gcagaaacta tttaatccac atgagctcac aagtaaccat 130
 agccatagat cgatattcag cttctgcact ggaccgagcg acaactgtct gttctctggt 240
 tttccaagaa ataagatttc ctccaatgaa gacacaatag cctaattgtag acctctctatc 300
 ctctgagaa cttctcaat tttctgaa atctccat atttggtat taccctctc 400
 tttatadaa atctctagat caggagctt ttaagatct ccagatagg atgacacat 410
 tccaat 426

<210> 17026
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17026

tucntttgca tennngaga acccacatgg gatcaaatga caaagcatat cagtctgttt 60
 atcaggaacc tgatgaagat gagattgtgg gtgtttccct ctcaaggcca cttctaagtg 120
 tagctgcttc agctttgatg accaatataa cagacttang cctctctgtc ttgccctatt 180
 ccgagcagct ggcctatgga tggtcagtga tttccaggaa aatgtgggca aggcggaaca 240
 aggaaatgta tgttccanct ttcatgaagg cttngagca tttctgcata catgctgggtg 300
 gtaagtcagt cgtagatgcc atagaggaga gtctgaagct gcacaagaaa gacgggtgaag 360
 cctcaaggat ggcattatac agaattggca atacttcac ttctctctgt 409

<210> 17027
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17027

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 aatacattat ntggagtaa aatgtcaagt ttacatact tgacataaca gattgtcatt 120
 atctagtcga gctatcaatg atctattata ttaatgcaga tcaacaacaga ttcctttggt 180
 tctttaatac aacatataa ttctaagaga gatagtttgg ttaatttacy tccgtctcag 240
 tcagtgtgtc ggaatgccat ggtgccttcc aaaaagagga catgtgcagg tcttccgaaa 300

ccctcatctg ttgagaaggt caccagagac ctgtgcacta ttcttcatga acaacagtct 360
 ttattt 366

<210> 17027
 <211> 176
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17028

acctctctata ttcaatttctg agctntttoga tatattacgg gactcaatcg gacatccgag 60
 taaaaagtta ttgtagtttg aatttgctca gggcttcggg attccatttc gagcgctctcg 120
 atattattacg ggactcaatc ggacatcaga gtaaaaagtt attgttggtt gaatttgcctc 180
 agagcttcggg tattccattt cgagcatctc gatattattac gggactcaat cagacatccg 240
 agtaaaaaagt tattgtagtt tcaatttgcg cagggcttcg gtattccatt ccgagcgctc 300
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaaag ttattgtcgt ttgaatttgc 360
 ccagagcttc cacattcaat ttccagcttt ccgatattatt taagggaactc atcagacatt 420
 ccagta 426

<210> 17029
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17029

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 atcgagagcg ccgaaattga ataccgaagc gctgagcaca ttcaaacac aataactttt 120
 taactcggatg ttgattgag tcccgtaata tatcgaaaag ctogaatgtg aatgtagaag 180
 ctccagagcaa attcaaacga caataacttt ttaactcggat gtctgattga gtcccgtaat 240
 ataccgagat gtccgaaatgg aataccgaag ctctgagcaa attcaaacaa taataacttt 300
 ttaactcggat gtccgattga gtcccgtaat ataccggaac gcttgaaaatn gaatgttgaa 360
 ccctcgagca aattcaaacg acaataaaact ttaactcggg tgtcttgatg agtcccgtaa 420
 tatatcg 427

<210> 17030
 <211> 429
 <212> DNA
 <213> Glycine max

<214> 17030

atgaacata caaactctct ggcgctata tcccgaaca attgctgtat caaactgata
 tcaatcaaaa ccaatccaaa ccgcacaacc attaaataat ttttttttta taaaaaaaag 120
 cttctctctgg ctcaagcctc ttcaagggtt ccaaatacta gaaactacag agaactaaca 180
 aagaaaaagg aaaatagata aatgaaaaaa aatggcaatt tcttcagaaa ctcgaaatta 240
 aaaaacaatct aagcgaattc gcttcgaatt tcaaaattac aacttccta ggtgtaatta 300
 agcaagcaga gaaaggaata ccattgattc acgtatggcg gtgggagaga caccatcgcc 360
 atccttggat tggcttgaat ttttatggc gaatggattt ccgcgattgg tggagactt 420
 gatgagagc 429

<210> 17031
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 17031

tagcaaatgg agctgggtat tgctcagttt cattatatct tccgtaatac tcatcactc 60
 taccatatct aataattttt atatttatgt ctaattgcc ttttacttca ttgtagttaa 120
 tttctaaggg atccattgcc taagaaatct cgggcagtaa gtagacataa ctgtaacgtg 180
 aataatcacc aataatggtg ataaagtatc attcctttcc gaaagaacta acatcaaaag 240
 gtccacaaat tcaatatcac aatttcaaga agctgagtgc ttcttgtagc tttttttttt 300
 gtatgttttg ctgtttttcc cttaatacaa ccacataaa tatttagatc cgtaaaatct 360
 agataaggaa gaatttcatt ctttattaat atttccatcc tttctctaga aatgtgacct 420
 aaacgtttat gccaca 436

<210> 17032
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 17032

agcttttcca aagaagatgy tgtcctccgc aaactggaga atattcactg cgaccttggt 60
cttcctccacc ataaagctgt gaaataagtt tcttgacact gcttccctca tcaatcctgt 120
ttagctttaa ttagctttaa ttagctttaa aggggccaag ttagctttaa ttagctttaa 180
ttagctttaa ttagctttaa ttagctttaa ttagctttaa ttagctttaa ttagctttaa 240
ttagctttaa ttagctttaa ttagctttaa ttagctttaa ttagctttaa ttagctttaa 300
at 302

<210> 17033

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17033

agcttgatg taaactatat gccttggtta acctggtaac ccaattggcc atgaataaaa 60
aatctgcact tctctgcata ctctatgggt tatgtctctc tgttgaccac cacacagacc 120
tttgcccttc tctgcagcaa tctaaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaa aattatgacc 240
tttccagcaa cagatagaat cctgngtgga ggaatcctcc caaccttaga tggtcgaatc 300
cttcacaaca acagcaacaa caacaacatc cttattttca gaatgttggt ggccctagca 360
gaaccatacg ttctccact atccagtagc aataacaaca acagcaacag 410

<210> 17034

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17034

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atgaactcct aatcgtctca caactgcaac aagaaagggt agaagataaa tctcgtttta 120
cacgaaaaaa aattgttagg aggtgcaat ggaaggcaag tcaagggaag aatttgacan 180
ttttaggtaa aggaggcttc caaacacaag accagttcac tagaaaagaa gaatgaatgg 240

taggctctcg gattaaccac tccaaggcat atttagttga aaagcaccct aaactagatg 300
 ggtcccatat aattntgtca agcatatgaa taacaagtgt ggtatccatc attttgagtc 350
 taatattant tggtagagtt gataaacagt gtcccaattc actgcccaca atggaatgta 400
 tttatg

<211> 17035
 <211> 381
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations
 <400> 17035

tatcttattt tccgctcgcg accctctgtt catcagtga tcttgccagg agctntttaa 50
 gttccagcggc actcaccttc gtatgagttc agcctaccat ccacaaaagt atggtccagac 100
 ttgaggttatg aatagagtaa ttgagcagta tttgcgcgct tttgttcacc gtccgcccgg 150
 aaattggcgt aaataactac cctggattga gctctcacac aacacttcac ggaattccgg 200
 cacaggttcc accgccatg agattacatt tggacgataa ccttcttcac taccggaata 250
 catctcggga acttcanaat ttgatgctgt ggaagaaatc ttatacaccg agaggaagtg 300
 ttcattgcac tccagaaaat t 381

<210> 17036
 <211> 429
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations
 <400> 17036

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 catggccat tttgctagta atttaaaaact tgtctccctg gttgtgcctg aagcaaaaat 120
 gcatgatgtt atctatgatg atatcaagcc caagacaact agggaaaggac attgatattt 180
 atctcagttc ctgattgaa gacttgacaa agttgtggga caaggggggt actgtgtttg 240
 atggtatcaa aataaacat ttaagtggcg tgcattgcta ttctgacaa ttaattactt 300
 tccagcctac gagaatttga ggggatatag ttttaagggc catcatgcac gctctatata 360
 tgaagaagac acaagccatg tacaattgna catggaagaa aatataatca ctccgcattg 420

cattttcta

429

<210> 17037
<211> 416
<212> DNA
<213> Glycine max

<400> 17037

acctcgggtgg taaaaggtat gagcatttga atttctcgag agcttccatt ttttaatttc 60
aaacgtctcg atatattatg cgcccggaatc ggacatccgt gtgaaaaatt atgaccaata 120
gaattctctg agagcttaag ttggtcattc tcgagagcct ctatatagga tggcgctgaa 180
tcggacatcc gagtataaag ttatgactat ttgaatttct caagagcttc cgttgcccaa 240
ttatgagcgt ctcgatatgt gattcgcatg aatcggacat ccgtgtgaaa aggtatgact 300
atttgaattt caaagagct tcggttgcct aattctgata ggttcgatat ggtattcgcc 360
cgaatcgaac attcgtgtga aaaggtatga acatttgaat ttctcgagag ctctccg 416

<210> 17038
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17038

agcttgtcta ctctcttctt cactacatca agaatcactg gggttgagtct tctctgtggc 60
tgtcttaactg gtttagcccc atctctana tttatcta at gcatacatgt ggatgggcta 120
ataccaggaa tgtccgcccag ggtccagcct atagctttct tatgctcttc gagaattgat 180
aaaaacttct cctcttgcct atcaacaagg gaggcataata taattactgg aaaacgtttg 240
ctatcatcca agtaagcata ttttanattt gatggcagag gcttcaatto tgggtgtgggc 300
guttggataa tggtagaagg agatggtnct tcagcctgta cctcataaag acagtcagag 360
gcatgtgtac ttctgaaac atggctagtt ctatcagact ctacgacacc tactctacg 419

<210> 17039
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17039

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agctttcttg aaacatcacc taacacatcc ttatggggag aaataacatt agactcatca 60
aaggaaaacat gaatgggacc ttcaatagtc ataantctct tattgtatat tctatatgct 120
tcaattatgca aggaataa ttatataat ttatataat ttatataat ttatataat 180
aagttctctt tcaattat ttatataat ttatataat ttatataat ttatataat 240
tttttgggtt tctaccattg aataattcat aaggagtctt cttaagatg ggtcttatta 300
aagctctatt taagatgtag catgcagtgt taacagcttc agccanaag tattttgaaa 360
gtggagtacc atttaataag gttcttgcta tttctcttaa ngatctatt ttcttttcaa 420
caacacc 487
  
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<210> 17040
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17040

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taacctanat ggtctccatt ccttccctaa accacattct ttctgaattc tttagtgtct 60
acaccttctt ggagccaaat gaacgtcttg ctcatctctg tcttccaatt aaattaatgt 120
aagaactaag aagggttctt ggtatactct ctctaactct aacacaacac acatgatgta 180
ttagtattag tttaaattta gtgaaaatta taaaataaaa taaaatttca acaaatgtta 240
agttgaatcc acagaactta tatttttaac taataataaa agaacgtggt taaaagagct 300
tgttggtaat attttttcat gtgtaattaa atgtaggtta ttattatata agttcattta 360
agacattgtg ctgtttggtt tagatttaat ttaatatact gtgaatatca acttgacatt 420
ttattttt 428
  
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<210> 17041
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17041

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tatcagtcac gcccatanat aaatgtggca aaatttgcca tgttataaaa ataaggctga 60
  
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aatgtggaat taagtctact attaatatac tatttatcta aatatataaa tacatagtgt 120
tttttacttt taaataggat atcaatttta tttttattag attcaatcat taaaaactaa 180
ttttttttaa cgggggaact ttttgatata aaaaatctat tgttagataa aaattaatto 240
tttataaaa atataccta ttttatat aaatctata tttatatata tttttatata
tttttataaa aatttttta tttttatt atgtataaaa ttatataata ttttttttta 300
acaatagaag aattccaata tataaatata tagtacatag atnttaatat atgtgtgagg 360
taattctact ttttaatat t 441

<210> 17042
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17042

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cattcaaggt tccccaaaa acactcacta tcttaaggaa gaattgccta aaattattac 120
acacaaatgg aattntggta acctattgga ggctcccaac acacttccat tgaaaggcct 180
tttggttaca aaacttgaaa gcaatgaagg taagttaaatt gcaaattaca aaattacaaa 240
atgggtccca atnttggtgg ttgttctctc tttggtgatt cactcaattt ggagtgcctc 300
ttagtccaat agctcttaag gtggttggtt cttttcttct tgactcanat tcttcaaggc 360
atggcaccaa tctctcttcc aattccctat atggcaaccc acanacaagg aaacaaagag 420
acaagcaata atc 433

<210> 17043
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17043

cttgtgcatt caatatcccg atgaggggtt tccatatgtt cttatgaactg ttctaataca 60
tttgcgcctc aagtttcctg gtcttgaggt tgaagatcct tataagcctc ttaaggagtt 120
ccatattgtt tgttccacca tgaacccccc taatgtccaa gaaggtcata tctttctaaa 180

ggcttttctt cattcttttg agggagtggc aaaagattgg ctacactacc ttgctcccaa 240
 gtccatcttc agcangyaca ccttaaaggg tgtctcttga gaaattcttt cttgcacata 300
 ggaccactac catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcttat 360
 gaaatcttct ctttcttttt aaaaactat gttccatttg tcttcactat gtttctttt
 aatgctcttc ctttcataa 420

<L10> 17044
 <L11> 435
 <L12> DNA
 <L13> Glycine max
 <L23> unsure at all n locations
 <L40> 17044

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 ggtatgcaga ctattggccc aacgtttctt atgacaaaact ttctagcacc catttggtta 120
 agtctctgcc attccaatca aacatgccaa gttacacatg acaaaaaata aaataaaata 180
 aaatacagta aatntttggt tggattnttt ttaataaac atttataaaa gaaaaaccca 240
 aaagtaaaact gaaataaaact tcttgcccca tcaatcaaaa tgaaataagt taatttataa 300
 aaatccttcc acttaatttt ttcaaaaact gattntaact tataagagaa gtttaactcg 360
 tgtatcttnt ctatcttaga ataagyaaac aagaaggtaa nataaaacaa tnttttataa 420
 atngatataa cttat 435

<L10> 17045
 <L11> 433
 <L12> DNA
 <L13> Glycine max
 <L23> unsure at all n locations
 <L40> 17045

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 tcagataaat gtgaggtcct tcaccattag gcctcttgta atgctccgta aacctttcag 120
 caaaataaag aggactctcc cygccaaact aatcttttag aatcccagcc agttctctct 180
 ccaactcaaa atctaagaaa atttccatg ttttctcttc caggaaacta catttcattg 240
 tttctgaatg tagthaacat acaaatatga gagatgtygt agtatgtatg agagacagan 300

agttattctg aatctaattg agtgaagatt aacatggagt tccaaattgg ttagttctgt 360
 atgaaactcg aaaaatanaa gactaaagaa attctgaaga atgaaatgat acacattcaa 420
 acagtcacaa aat 433

<211> 17046
 <212> DNA
 <213> Glycine max

<400> 17046

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 tagtataaac agaaaagatc gactttgac agtatatgtc ctatggcaat ctattaaaca 120
 atttaattaa ttaattatc gacagaatac atatctgcaa gtttcaatat atattttatt 180
 caacccaaaa ctatctata ccaggaatat gagtaattat gtttcaaac cataaatatt 240
 taacaaaaaa gaaattagtt cgatatagct ataactaaat catagcagat tatcaatcaa 300
 gttacatgta gtatgtatc ctattgaaat gaaactatct ttgagagtct tatgagctaa 360
 gcaagttaga atttggaatt agggatc 389

<210> 17047
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17047

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 ttatgaacct tcaagcaata gatacaatcc aggttggagg aatcatccaa atctgagata 120
 gacaagtctt ccacaacaac atcagcctgt cctctctctc caaaatgcta ctggtccaag 180
 caagccatat gttctctctc caatgcaaca acaacagtag cagtcacaac aaagacaaca 240
 agcaatgatg cctctctcaa cctctcttag aggatttagt gaggcaaaatg accatccaga 300
 atatgcaatt ccagcaagag acaagagcct ccattcagag tctgacaaat tagatggggc 360
 acatggctac ccagttgaac caagtcacat cccaaaattc tgaccaattg ccttcacana 420
 ctatccagaa tccg 434

<210> 17048
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17048

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 agagagagtc tgaatatctga agtttaattt tcaaatgata aaagttgaaa aaattgcaca 120
 aatagacact ctatttatag cctaagtgta acacaaaatt ggaggggaaat ttgaattttt 180
 attcaaatat caattgaatt tgtggagaca aattttggag ccaaaaatttc actaattatg 240
 attagtgaat ttttaacctg tttcccaact aatccaagat gaagtccaag attctccact 300
 aggtgtgctt aggtgtcatg aggcattgta agcatgaagg acatgcacaa agtgtgacta 360
 tatgatgtgg caatgggggtg tagcaagcaa attctccact tccccctna aatttaattg 420
 ga 482

<210> 17049
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17049

agctttatatt ntaattacg agcgtcttta tatattacag gaactaatca gacatccgaa 60
 tgaatgtta ttgtcatttc acttttcata gagcttccgt tttcaatttc gagcgtctcg 120
 atatatataa gggctcaatc ggacattcga gtaaaaagtt attgtcgttt gattttttgta 180
 aaagcttccg ttttcaattc cgagcgtctc gatatactat gggacacaaat caaacatccg 240
 attcaaaaagt tattgtcgtt tgaatgtgct cagagcttca gttttcaact acaagcgtct 300
 agatatatta cgggactcaa tcagacatct gaagttaaat tattgtcatt tgacttttca 360
 tagagctctc gttttccata tcgagcgtct tgatatatta at 422

<210> 17050
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17050

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ataagaanag tcaacggaca attacttntg acttcggatg ttgattggtt cctggaanac   60
atcgagagcg tccaaattga aaatggaacc tctaagaaaa gtcagagac aataactttt  120
atggtttt tttggtttt tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt
tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt
tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt tttgtttt  240
atcgagagac gtcgactga aaacggaagc ttgagaaaa atcaaacgac aataactttt  300
aaatcggatg ttcgattgag cctgtatta tatcgagacc ctgaattcg aaacggaacc  360
tctaaaaaag tcaaacgaca ataactttta actcggatgt ccgattgagc tctataatat  420
atcgagagcg                                     480
  
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<210> 17051
 <211> 406
 <212> DNA
 <213> Glycine max

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<400> 17051
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tttatgagtt atggagaaaa agagaaccaaa atatgaaata tcttaaagtg tgggagtgtc  120
ttgaaaaggt taacatccct attaataaga aaagaaaaat tggaccaacc gttgattgtg  180
tttttggttg atattttttg catagtacta cttatagatt cttggttggt aattctaaag  240
tgttcaaaaat ttctaataat actattatgg aatctagaga tgacaatttc tttgaaaatg  300
tttttctttt ggaaaaaaaa aattgtctaa acccgtttgt gatacttctt attctgattt  360
gtcatcttgt agtaattcta ataaggatgt tgtttttgaa cctata                        406
  
```

<210> 17052
 <211> 411
 <212> DNA
 <213> Glycine max

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<400> 17052
ttcttgaagc cttaaacatt caatttcgag gctctcgata tattacggga cttaatcaag   60
catccaagaa aaaatttatt gtctttttaa ttgtctcaga gattcaacat tcaatttcga  120
gcgtctcgat atattacggg actcaatcag acatccgagt aaaaagttaa tctctgttga  180
  
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attgggtccg agcttcaaca ttcaatttcg agcgtctcga tatgttacga gactcaatca 240
gacatccgag taaaaagcta ttgtcgtttg aatttgcctc gagattcaac attgaattgc 300
gagggtctcg atatcttaag ggactcaatc agacatccga gtgaatagtt attgtcgttt 360
taattccgac aiaatttcaia taat taatt taattccgac aiaatttcaia 420

<210> 17053
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17053

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attgatttca ccattttcaa tgaatcttgc atttccagct ttgaaaatc tcactactatg 120
attaggacaa taaaacatat accccttttg acttttcttg ataaccaatg aaatatccac 180
tgattgttca tgcacccaat tttctttctt gtggattata aatccttatt tctgcttggc 240
aaccttaaac atgcaagtgc cttatactag gtgtcttttg aactgcctta ctaggaaccc 300
tattcaacaa atacatggta ttnttcaagg catacatcca caaagataca ggtaaatttg 360
aattacttaa catactctta accatatcca ttaaaattct attacgcctt 410

<210> 17054
<211> 394
<212> DNA
<213> Glycine max

<400> 17054

agtttcttaa aaagcatacg gctttcttga tctagatgat gatatctata cagatggatc 60
ttatatctct atatatctat agatagatat atacatatag atatatagat atagatcata 120
caatgaagta ccgcacgagt gggtatatac gaatccaaat ctgcacgaatc actcatgtta 180
tgatcttcta catctaggtt ctccctgtgc ctccatctgg cttatgttct tcatgtagca 240
ttcagactga atgaactctat gatatgacgt cgtactctcc acatggtaag ggtaacgtac 300
gagacatctc tatttttccc ggggggaatc cttagagtga ccacagctta gctttcaatt 360
cgctctcgac catcaaatga aatgtgaata accc 394

<210> 17055
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17055
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 aatttctcga gagcttcoga tgttcaattt cgagcatctg gatataattat gcaactgaat 120
 cggacttcog tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180
 atcgagcttc cegatataata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240
 tgggaatttc cegagagctt cegatgttca atttcgagca tctgaatata tcatgtgcct 300
 gaatcggaca cccgtgtgac atgctatgac catttgaatt tctcgagacc acacgttggg 360
 caatttcgag agtctcgata tattatgcgc ctgaatc 397

<210> 17056
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 17056
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 aatttctcga gagcttcoga tgttcaattt cgagcatctg gatataattat gcaactgaat 120
 cggacttcog tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180
 atcgagcttc cegatataata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240
 tgggaatttc cegagagctt cegatgttca atttcgagca tctgaatata tcatgtgcct 300
 gaatcggaca cccgtgtgac atgctatgac catttgaatt tctcgagacc acacgttggg 360
 caatttcgag agtctcgata tattatgcgc ctgaatc 397

<210> 17057
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17057
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tgattcaaact gagtagccat ctgccccatc tgatttgtea gactctaaat ggaggtcttt 360
gtctcttggc gaaattgcat attctggatg gtcatttgcg tcaactaactc ttc 413

<210> 17060
<211> 413
<212> DNA
<213> Glycine max

<410> 17161

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gaaagtcttg atgggctgt tggggcacc gtggtttgcg gatatggtc agcttgact 120
agaacccaact tatttaactg aaactcatg tccctgcgat gtcacccgc gatttccttc 180
atgcgagcct ggctttctg caatttcgg cgaaggagt taaacatgt tccctctga 240
ctgagcaaat cgtccactgt tctacagtg gaggtgcctg ttaagtattg gggcaaacct 300
ggaggtttgc ggcaaatgt aacctcgaag ggtgttagcc tegtggctga gtggacagac 360
gtgttatacg acaactctgc ccacaacagg aagcgcccc acgaact 407

<210> 17061
<211> 411
<212> DNA
<213> Glycine max

<400> 17061

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aatctgtact tggtgcaaga atctgtggt tatgtctctc tgcgaccac cctacagacc 120
tttgcccttc tgtgcagcaa ctgggagcaa ttgaacagcc tgaagcttat gctacaaaca 180
tctacaatag acctctctca cctcaacagc aaaatcaacc acagcagaac aattatgacc 240
tctctgcaa cagatacaac ccggaatgga ggaatcacc taatctcaga tggcttagcc 300
ctcagccaca acaacagcaa ctgtctctt ccttcagaa tctgtctggt cgaatatagac 360
catacgttcc tccaccagt caacaacaac agctaccaca gcataaacag a 411

<210> 17062
<211> 411
<212> DNA
<213> Glycine max

<400> 17062

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aatcaacac accctggcaga ctctgtggat tatgtctctc tgcggaccac cacacagacc 120
tttgccttg tctgcagcaa tctgaagcaa ttgaacagc tgaagctat tctgtcaata 180
tctcaatca atctctca ctctcaac cctc cctc cctc cctc cctc cctc cctc cctc 240
tctcagcaa caggtcaat cccgagtgga ggaatcacc caacctaga tgggttaac 300
ctccacaaca gcgcagcag atacaacagc cttattttca gaatgctgtt ggcccaagca 360
gaccatcat tactccacca atgcaacaac atctacagcc ccagaaaacg a 411

<210> 17063

<211> 403

<212> DNA

<213> Glycine max

<22> unsure at all n locations

<400> 17063

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gagtcctgta atatctgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa 120
cgacaacaac tttttactcg gatgtctgat tgagtcctgc aatatatcga gacgctcgga 180
attgaatgtt gaagctttga gcaaatcaaa acgacaataa ctttttactc ggatgtctga 240
ttgagtcctg taatatatcg agacgctcaa aattgaatgt tgaagctctg atccaattca 300
aaagacaata accttttact cggataattg attgagtcct gtaatatata tagacgctcg 360
aaaatgaatg ttgaagctct aagccaattc aaagacaat aac 403

<210> 17064

<211> 410

<212> DNA

<213> Glycine max

<400> 17064

agcttatgct tctaaaaagc tataggtaat gtaatgtaag aagcaagtgt atgatgaatt 60
acttcagttt tctaatcttc cttattagtg attatctaat taacaatttc atgaaattaa 120
cagcttcctc aatcatttgg ctttttcaaa gatcatgaag aaatatgata aggtgaaaat 180
tcaattaccc ttcaattcat ttaactcatt taaactttat tctctgtaac atcaattgac 240

atagtaactt cataattcag atcacgtcaa gagatgcagc tgaagcttat atgagaatgg 300
 tggacaactc ccaactctgga agttctgatg aggtgagagt gctaataaga aagtctccca 360
 ttagattcca ttattcttct acatgtaact tctatcaccc gtaggtttaa 410

<210> 17065
 <211> 411
 <212> DNA
 <213> Glycine max

<210> unsure at all n locations
 <400> 17065

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 accattctgg tgytgtgtat gagggcatat gactctatga ataataccaa gctctgcaag 120
 atacttagta aaaggtctgt attccctctc ccaatcagac tagacagctt taataggcaa 180
 attaaattga gtcttcacca tagtttgaaa ctgtgtaaaag ataggttagtg tctctgattt 240
 atttttcaac aagtacacac aagtgaacaa agtgtgagca tcaacagaag ttacatagta 300
 tttataaaca gtgtaaatga gttcaaaaagg agttgaatac acagttaagag agggagagga 360
 gggaagttat gagattcgcc aatgcaacaa tgggaacaan agtcagaact t 411

<210> 17066
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17066

agcttgctac ataccaccta tgttcacccc tagggttctt tcagatgggt ttatatctat 60
 ccactctccc ttatttgacc tgacttgaag cctctctatc tcattgtgat ataagatagt 120
 aatacaaact ataccaatgt gcatcccaag cccctcaact tgatcttcta taactcttgg 180
 agctgagtaa tcytttcccc aacatataca accatgaaca ctctctcata cttgattcac 240
 ttcttgttgg ttcttttggg tactttcacc cgatagtctt catgahgcaa accatttacc 300
 ttccaaaatt ttacctatcc ctcaatttct gctactgcac atggttaattg gtaagcctaa 360
 caagttacatg gaaaaaayga gaaagacccc actgggtttgc aagtaaaacta a 411

<210> 17067

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 agcaagacaa cgettaccaa acaaaaaacgg ctcttaattt ttaaaacata taataaaatg 180
 ttcccttatt ataataatca aattgacctc aattagcata aaaataatag ccttttagtgg 240
 gacaatccat agtaattat caatttagt caattatatt attaaaaa caaaaagaaa
 caattatatt caattatatt caattatatt caattatatt caattatatt caattatatt
 taagtgaatt caaaccaaga ccttaacaaa taagctatc

<210> 17070
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17070
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 aaagtgcgat taaggcgcat aatatatga gacgtctctg tgaaattcag atgggcataa 120
 ctgttaactc agaggcccca tctatggcca tagtatactc agatgcacat catggaacaa 180
 cggaaagctct cgagagactt atatggagct gacctttaac toggagttct gattcaggca 240
 cataacacat tctgacgctg gagatggaac aatgaatgct gtgagagactt tcaaatggac 300
 ataactgtgg acgtggaggc atgactgggg cgatgagata tagagacgct cataatgaac 360
 taagggaagct ctctagaaaa tgaatggcac ta 392

<210> 17071
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17071

agctttttta catgcatgca tcattcccag tgaaaattaa gtcaccaaca taacaaactca 60
 caattaaaat tcctttacct cctctgtttt tgacaaagag agtgtgctca tgatcgcata 120
 gttcaaaacc ctcttcaca aaataggctt caattttgct ataccaagca cgttgttgctt 180
 gctttaaccc atataaagct tcttaagct tctagacctt ctctctttca ccttttcgaa 240
 cataacccca tgggtgttcc acatacaagt cctctgtcaa ttctcgtga agaaatgggc 300
 ttttgacata tagttgatac acattccata ccttttgttc tctagagctt aaaaccatcc 360

ggattgtgtc ccaccttggc accgngcaa acacttgggt gtagtcaatc ccttg 415

<210> 17072
<211> 407
<212> DNA
<213> Glycine max

<400> 17072

atttgggtgc acaattcaat gtgacaatca aagtgtcatt caattatcaa atcaacaaat 60
gtacatgag aggacaaagg acatagatgt gaaactacac ttcatcagag atgtgattga 120
atcttagaag gtgaagggtg agaaagtctc aacagaagaa aatcgggtg atatgttcac 180
aaagtccttc tctagtgtca agttcaagca ctgcttggac ttgatcaatt tgaagatgc 240
ctaaagcagt ttggtagaag tgcagcctca aatcacaagg aagacaattg ctgatttggc 300
gtcaagggtg agatttgttg tgtgtgactc aaaatcacaa ttgcacaaag tgagaagggt 360
ttaaagtggg gtgttcataa atgttatcaa gtattataac tgaattg 407

<210> 17073
<211> 404
<212> DNA
<213> Glycine max

<400> 17073

agcttgttat tggacaacgg aagctctcga gaaattcaaa tggtcataac ttatcacact 60
gaggtccgat tctggoggat agtatatcga gaagctcggc attgaacaaac gaaagctctc 120
gagaaattca aatggtcata acttttcaaa cggaaagtccg attcaggtgc ataatatatc 180
gagaagcttc aaattgaaca acggaagctc ttgagaaatt caaatggctg taacttatca 240
caaggagatc cgattcaggt gcataatata tggagaagct tgggaattgaa caacggcagc 300
tcttgagaaa ttcaaattgt cataacttat cacacgggaag tctgattcat ggcataata 360
tctgagagcg ctcgaaattg aacaacggaa gctctcagca aatt 404

<210> 17074
<211> 413
<212> DNA
<213> Glycine max

<400> 17074

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 cagcgtaatg gagatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc 120
 aagaaaaaac tcaccaccat aggaagtcct ggataagagc ttgaaggtag gagaagatga 180
 tggagatg tctcaatg tcaatg caaagatg tctatcat tcttattata
 tcttaagtgt cacatacaat tggagggaat tttgaatttc tattcaaatt tcacttgaat 360
 tgaatttca tgaatttctg gagccaaagt ttggagccaa aatttcaacta att 413

<210> 17075
 <211> 399
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 17075

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 gatatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc aagaaataac 120
 tcaccaccat aggaagtcgt ggatatgagc ttgaaggtag gagaagatga ttggaggaag 180
 atggagagaa ggagcacgat atttctgtgc tcaaatgaga tttcaacctt gaatggtgat 240
 tctcaaatga tcaagttga taaatgcac atacatgacc tctatttata gcttaagtgt 300
 cacatacaat tggagggaat tttgaatttc tattcaaatt tcacttgaat ttganatgca 360
 tgaatttctg gagccacagt atggagccag aatttcaact 399

<210> 17076
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 17076

agcttggtat tgaacaacgg aagctcttga gaaattcaaa ttgtcataac ttgtcacagc 60
 gaagtcctgat tcaggtgcat aatatatgga gacgctcgaa attggacaac gaaagctctc 120
 gagaatttca aatggcata acatttcaaa ttgatgtcctg attaaggcgt atattatata 180
 gagaagcttg aaattcaaca aaggaagctc ttgagaaatt caaatggta taacttata 240

cacggatggt caattcatgc gcataatata tcgagaagct tgaaattgaa caacggaagc 300
 tctcgagaaa ttcaaatggg cataactttt cacacggaac accgattcaa gcgcataata 360
 tatcgagaact ctgggaattg aacaacgaaa gctctc 396

<210> 17077
 <211> DNA
 <212> Glycine max

<400> 17077
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 agatctcgag acgtctgtaa ttgaaaacgg aagctctgag aaaaatcata cgacaataac 120
 ttttaactcg gatgtctgat cgaacctgt aatatatcaa gacgtctgaa actgaaaagg 180
 gaagctctaa gaaaagtcac acgacaataa ctttttactc ggatgtctta ttgagccctg 240
 taatatatcg agacgtctca aattgaaaac gaaagctcta tgataagtcg taagacaata 300
 actgttaact cggatgttcg atagagccct ttaatatatc gagacgtctg aaattgaaaa 360
 ctggagctct aagaaaagtc aaacgacgat aactc 396

<210> 17078
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 17078
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 taattagctg acagtctgat catgctgata tatatcaata agttaaattt gatagtgata 120
 ctgttgtata tattaaacta cattgagatt tggcaaaaagc aaaaagctat taaacaatgt 180
 ctgtgtgtgc attctcattc aagaaacagg ttccaacttc tgtacaaaac agaaaatcct 240
 tacaataaaa gaaaacagct tctgttcaaa ttgtctcact cttatctgtc tgtgtctcca 300
 ttageatgat ttacaggtca ttcaaatgac agggacagt taggaactca tctctcttac 360
 atgttatgtg gagaccacc attgcgtgc 389

<210> 17079
 <211> 394
 <212> DNA

<213> Glycine max

<400> 17079

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aatgatagtt atggggggg agccttaagg gaaagtctct ttgtgtgagg aagcctatgga 120
tcttctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct 180
aaacaggaat gcttagcaga tataaatttg aatgaagaa gttagagggg gtgtgaagca 240
aagggtogaat ttgttttttg gtgaacgtgc tattaatgtt aagtgtatcg ttgtgggcacg 300
ttcagattgc agtagctgct ataattcctc tagcaaacaa atgcccagct tgcacctcag 360
tttttcaaac tgatttgcct ccaaagcctt tgtg 394

<210> 17080

<211> 382

<212> DNA

<213> Glycine max

<400> 17080

agctttttacc catgacttcc tatggtgggt agctttgttct tgactcatct tctccttgaa 60
gtggggtctc caatcacctt tctccttctt ccatccgct accattgac ttcaagaagc 120
aaaggactcc attgatgagg aagatccaag gctacaagc tctacattga gctacatcat 180
gtgggtattag agcatcttca tctaagcgat gttctttttg tctctctatc tttttgttcg 240
gtcaattgac ttttaattct tgtttctcat catcttctcc atgtatctgc tccattgtct 300
tatggttttg ctatttttag agtagattca acaaaataaa cagattaaat cttagataag 360
cactggttct tgcatttcta tg 382

<210> 17081

<211> 280

<212> DNA

<213> Glycine max

<400> 17081

gcttgagtcg aaaacgcgag gctgacctt ggtcattac ctgtcatggg attttttaag 60
ctctcgcgtcg gcttacatga aagtctggct agggccacga tctatattga aagcttgctt 120
aaagacgtct ctgataaatc aattatttta aatcctaag aaatacttac taaaaaaga 180

aacttatgaa atcccttatt agtaatgcac aaattctaaa ataattgata aacaaaatga 240
 ttatgaaatc taactgtaaa gcacacagta tattaataaaa 280

<210> 17082
 <211> 385
 <212> DNA
 <213> Glycine max

<400> sequence of all 4 locations
 17082

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 tctaattgca tttcccatgc tgattgacag aggtcgacac tcaataagaa atgatacata 120
 actaccaatt tttgtgtgca agtctctcac aagagtcttc tcaggtggaa ccttgtagtc 180
 ctgtatgggc tcttgaaatg ctggaagcat tgcattgcaa cgagcattgc caccagatat 240
 attctcagtt agatactgca agccacctg aaacaccata aaacaagatc attaagattt 300
 gggaaaaaat atttcaaaag gcttaggtca caaacatat tgacctgacc caggtcttaa 360
 tcaatgatat tcaataaaac accataaatt ttaatt 396

<110> 17083
 <111> 385
 <112> DNA
 <113> Glycine max

<400> 17083

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 gtgaattgag aacagaattt gctaagagtt tttcacaaca aaaaggtctt atctctttaa 180
 aaagacaaat cgtttttatc tcttacaat tcttggcca caacacttgt gattcaataa 240
 ggaattatct gagtgtctca attgatcaat ctatcttttt caagagagat atcgtcttat 300
 ctctctctct attctgaaaa gggattaaga gaccgacggt ttcttgttgt gaaataattc 360
 taaccacaat agaagaattg tctt 385

<210> 17084
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 17084

atctttttcca gatagaatgt caaagatgga cgatacttta acacaattta tgcaagtata 60
tagacaaaac cagaagaaga ctgatgcata tattaaaaat ctagaagttc aagtatgaca 120
ctctctctct ctgctctctct ctgctctctct ctgctctctct ctgctctctct ctgctctctct 180
ctgctctctct ctgctctctct ctgctctctct ctgctctctct ctgctctctct ctgctctctct 240
taatgatgaa aaaagaataa aaaaagagtt gaaaaagaaa acacagaaaa tcatgaagtg 300
atgactagtg aaaaagtggg agacaaagtg gtaagtgaag aagagaagaa gatatcaaat 360
gaacaaaaca gtaataaagg taaagct 387

<210> 17085

<211> 370

<212> DNA

<213> Glycine max

<400> 17085

agcttgttct tatacaaacg accataactt tttaactcggg tgtttgattg aggcctcgtaa 60
tatatcgaga cgtctgaaat tgaatgttga agctctgaac caatataaac gacaatgacc 120
tttactcggg atgtatgatt ggtcccgta acatatcgag aactcggaaa ttgaatgttg 180
aaactctgag catattcata cgacaataaa ttcttactca tatgtctgat tgagtcctgt 240
aaattatcga gacgtctgat attgaacgtt gaagctctga gccaatatac acgaccataa 300
cttttactc ggatgcctga ttgatgctcg taatatatcg agacgtctga aattgaatgt 360
tgaacctctg 370

<210> 17136

<211> 389

<212> DNA

<213> Glycine max

<400> 17086

tagcttggtc acctttttcc tcaatcttc cttaattgat ggggtgagcc ttctttgggg 60
ctgtctgaat ggtctgtaat ctctctccat cattatcttg tgcatacaat aagcgtggct 120
gattcttttg agatctgata tggccacat aattgcctcc cngtatctct taaggacctt 180
taacaaacctg tttctttttt ctgtctgag ctcactgctg atcaccacag gcttggtctt 240

gttttttttt aagaacacat acttcaggtg gttgggtagg attttcagct ttacettggt 300
 cctctcrgat ggaacccgc ttttcaatte ttogaaactg gtccccatta cagtaaatatt 360
 gtcttcacaa tataagtttt ccaagaaaag 389

<210> 17083
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17087

ttttttttta tccatctctac gcatggaaga cctttccatca tatttttttc atgtaccaac 60
 ttcaaagcct gagtgtggaa gtgaccaaatt cttcgatgoc ataaccatga atcatcaatt 120
 gtgtctctca tggaaaagct agtactagta gtatacttga agcttattgg aaaaatacta 180
 tttaacttca acattttaac ttgacaatc tctgtgcttt tcttagttgt atcaaatact 240
 gcaagtatct cctttgaatg aacagattag tctttctcca tcatttgctt aatgcctaag 300
 agattgtctt taagatctgg aactaaccat acatctctga tgaatcttgt acctttcttt 360
 gtctacagca tcat 374

<210> 17083
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17083

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 cctgaagcta cctacaatcc taagatcaga gttcataaac tatatagccc acatggctgc 120
 gtgaacaagt ccaacaagca gatggaaatt ctttccataa actatactaa agggagacat 180
 catagcggga gccctacagg gttttatgta tgcccataat gtgtcatcca atttcaatga 240
 ccaaatcttt ctatatgctc tcacagtttt ttgtaaaaac ttctatagat accatttata 300
 tacctcaact taaccaattg cttagtggtg atacaaagta ataaccctat gggtaacacc 360
 atatttagcc acatggctat cagacaa 387

<J10> 17089
 <J11> 391
 <J12> DNA
 <J13> Glycine max

 <400> 17089

 agaatcga gaaagcagc agatcagc agatcagc agatcagc
 agaataaagt aaagacacat ttttggtctg gatgataat taatctctgt taaagaaaaa 180
 atcatatcca ttgtacacata attgagttat gtcagtaga ttgtgtttga gccatttaaa 240
 aaataagaaa ttatcaatag gaggatatgg atgtatacct atcttaccga ctcttgtttat 300
 ttgtctttt ttattcctta tgaaagtgat ggttccacca tgataaggag taatacattg 360
 gaacatgcac ctctctctctg tcacgtgcca t 391

<J10> 17090
 <J11> 367
 <J12> DNA
 <J13> Glycine max

 <400> 17090

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 atcttgattt cccatttgca tcgtacaaaa gtcaccgctt tggtaggatg agaagaaact 120
 tccatgtgga gtaacatgga aggaggaccc ggaatcgaca atccaagagc tatcatcaca 180
 agcaatgttt atgatattac ctccaccaac gagatataac aaatcttctt ttgaaactac 240
 ggcagttagta ttctcttttt ctctctctct tgttgggctg aattgggtctg gcttaacgtt 300
 acagattgtg tgatctctct tgaaggattg acattctatc ttctgtggc ccctctctcc 360
 acagttag 367

<J10> 17091
 <J11> 393
 <J12> DNA
 <J13> Glycine max

 <400> 17091

 agcttcattc ttctctctta gtaatgcctt atctatcata tctacacat taaaggattt 60
 cactctcaaa gggccacaaa catttgaatg caccatctca agcaactcaa atttcttgga 120

gggagaatgc ttcttgaagg atactctggt ttgcttacca accatgcaac atgaacattt 180
 ctccaaattt gcattcttca atcttagaaa catatcttcc ttggtctaaa aattcagccc 240
 tttctcaata atatgaacta gcttccagtg ccacaaaaat gcttccatat ccataacatt 300
 tttattctct ctacacaaa aucttttctt ccaattctac ttctctcttt tttctctctt
 ggtcccaatt atgttacctt taatcaattt ccacttcc

<210> 17092
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 17092
 agcttttagc taattcaaac gacaataatg ttttgcctgg atgtctgatt gagaccgta 60
 atacatcgag acgtctgata ttgaatgttg aagctctcag caaattcaca cgacaataac 120
 tttttactcg gatgtctgat tgagtccag aatacatcga gacgtctgaa actgaatgtt 180
 gaagctctca gctatttcag acgacaataa cttttttact catatgactg atcgagtcgc 240
 gcaatatatc gagatgatcg aaagtgaatt ctgaatctct aagctaatto taactacaat 300
 aaattttctg cgggatgtct gattgagttc cgtaatctac tgagacgctc aatattg 357

<210> 17093
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17093
 agcttttctg tgcaaggaat atccaaggaa aattccatca tctgacttag catcaaat 60
 tcttaagttt ctattaccat tgtttaatac aaagcatttg caacccaaaa catgaagatg 120
 tgaaatattg ggttttctac cattaaacag ttcatatgga gttttcttta aaatgggtct 180
 tattaagac ctattcatga tataacatgc agtattaacg gcttcagccc aaaaatattg 240
 tggaacagga gttcatgga ataaaggtct agcaatctct tccaaagatc tattattctt 300
 ttcaacaact ccatttttgt gaggggtctt aggtgcagaa gaattatgtt caatcccatg 360
 cttttcacia aatagatcaa attctttatt ttc 393

<210> 17094
 <211> 241
 <212> DNA
 <213> Glycine max

 <400> 17094

 aacaaagat tttttcagac ttttatcttc ttacaaagc ttttttcat tt ttttttt 60
 ttttttttaa ttttttgagat ttttttatgt ttttttggc tttttttt ttttttttt 120
 tttttttcagt ttttttggtaa ttttttgaaa ttttttgggt ttttttttaca ttttttttt 180
 ttttttttttt tttttttgtca ttttttggac ttttttttag ttttttttgc ttttttttt 240
 g 241

<210> 17095
 <211> 387
 <212> DNA
 <213> Glycine max

 <238> unsure at all n locations
 <400> 17095

 agtttttttc aacaaacaaa gtttttgatc aagatttttt caagatcaag ctttggctca 60
 aaacaaaggg tttcaaagtc atgcaagggt ctggtaatcg attaccagaa gggaagtttg 120
 agaaatagct gttgaaaagg gttttgaaat tgaaatttga acatgtaate gattaccatn 180
 tttttgtaat cgattaccag caatgaaaact cttgatattc aaattcaaaa gtcacgaccc 240
 tttcaaatat aattgtgtga tctgattacca gaaacctgta atctgattacc agtgaagaaa 300
 tttcatataa actttcttgaa aagacacatc tttttacacc atattgaaaa ggcattgaatg 360
 gtttatatat atgtgtgtgt gtgaactt 387

<210> 17096
 <211> 423
 <212> DNA
 <213> Glycine max

 <400> 17096

 ttttagggta aagtttcacg attgtcacgt gtttcaccaa ctattgttag ctttggctat 60
 accagacatc ttgcacaaac aagtcagggt cagcataact cgtttgtgtt ttttttttca 120
 ttttatatgt agcaaaagtga ttgatccagt aatttttgat gattttgaaa atgaggttcgc 180

aattataactg tgcagctgg agatgtatctt tccccctgct ttctttgaca tcatgattca 240
 ccttgattgtg catctgggtca gagaaatcaa atgtttgtggc cctgtttatc tatgggtggat 300
 gtaaccgggtt gagcgataca tgaagatctt aataggggtat acaaagaatc tatatcgctc 360
 ggaagctctt attttgaga gttatatttt agaggaagtc attgaaattt gttcagaata 420

<210> 17097
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17097

aatggatgta aagagtgcac ttttaaatgg ctgatttcaa gaagaagtat atctagatta 60
 tccccatgga ttgaaaaact cagacaagcc taatcatggt tataaaactga aaaaggcttt 120
 atatggtttg aaacaagccc caagggtctg gtatgagcgt ctgagtaaatt ttattttaaa 180
 taaaaaattt tctagaggta aagtggatcc cactcttttt ataaagagaa aactaaatga 240
 tattctattg gttcaaatat atgttgatga tattattttt ggatccacta atgagtcatt 300
 atgcaaggaa ttctctcttg acatgcaaag caagttcgaa atgtcaatga tgggagaatt 360
 gaattacttt ctgngtttac aaataaagca aactaaagaa ggaatanctt tcaaccaaga 420
 aaaatact 428

<210> 17098
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17098

tanacattca atttcgagcg tctcgatata ttaacgggaact ctatcaaaaca taagagaaaa 60
 aagttatnct gggttgaatt tctcttcagc ttcaacatcc aatttcgagc gtcccgatat 120
 atattacgag acatcaatcag acatccgaga aaaaagttat tctcgtttga attggctcag 180
 aggttcaaca ttcaatttcg agcgtctctg tatattatgg gactcaataa gacatccgag 240
 taaaaagtta ttgctgtttg aatgtgtcca gaggttcaac attcaatttc gagggctctg 300

atataattatg ggactcaacc agacatccga gtaaaaaattt attgtcgttt gaattggctc 360
 ataggttcaa cattcaattt cgagcgtctc gatataattac gggactcaat caggaatccg 420
 agtntaaaagt tatgtcgttt gatttggt 448

<210> 17099
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17099

tatgtctgan atattttataa tagaccctct cagtagcaaa actcaacaac agttttataa 60
 ttatgatctt tcaagcaaca aatacaatcc aggttggagg aatcatccaa atctgagatg 120
 gacaagtctt ccacaaaaac aacaacaacc tgtccctctt ttccagaatg ctgtcggctc 180
 aagcaagcca tatgttcttc ctccaatata gcagcagcaa tagcaaacgt cacaacaaag 240
 acaacaagca actgaggccc ctctccaacc ttcttagaa gagttagtta ggcaaatgac 300
 catctagaat atgcattttc agcaaaaagt aagagcctcc attcagagtc tgacaaatta 360
 gatggggttag atggctactc agatgaacca agctcagtc taaaattctg acaaattgoc 420
 ttgcgaaact atgcagaatc cgaaaaatgt gagt 454

<210> 17100
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17100

tgcatagcag ntctactac ttaagctgat tacatagttg tatgaagttg ttgtactcaa 60
 agtcttttga tgaagcaaca actcgaagac ttgggagtaa accttgatca catctctcta 120
 aaatgtgaca acacaagtgc taccaatcta acaataaacc cagtcaagca ttctaggact 180
 aaacacatat aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgctgc 240
 attgagttca ttgatagtg gcatcaacta gaagaaattt tcaactanac tctgctaga 300
 gataagtttt ttattagaaa tgaactatgc atgttagatg catctagcat aaaatgacat 360
 tctgtttgca tagtgtgtga tgcacattgc tactcatatc natttgttt 420

<210> 17101
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17101

ttgttaaggat agaatcatct atcttatctc taatagatga tggatgagtt cngtcttagg 60
 gttttcgaag aagacgggac tcaatgtgat aaaaaagag aagcagayag taattcctac 120
 tgggttgcat aacagttgga gagtctgcat tgattatagg aggttgaacc aggtttacaa 180
 aaagraccat ttctccctgc cattcattga ccagatgctt gaacgccttg caggttaaate 240
 ccactattgt ttctctgatg gttttcttgg ttatatgcaa attactattg ctcttgagga 300
 tcagytaaaag accacattca cctgcccctt cggcactttt gcttatagga ggatgccttt 360
 cggctgttg aatgcctctg gtaccttcca ggggtgcatg attagtattt tcaagtattn 420
 ttagaanatg catagaggtg tcatggatga ttctact 457

<210> 17102
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17102

agcttcttat ctaatgctca tcttggtggg gaagcttctt ctccaagga ttattcccta 60
 atggatgggg cactctctct cctctctctc ttgtcttcc gctgcatctc catgggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
 gcaagcttcc taaggtgttc ctcttcagtt ttagacttgg cgatcatgct gtctatgtag 240
 atttgatct ctgggtgcat catgtcttgg aacacagcca ccatagccca ttgatagggt 300
 gcccagaagt tcttgagccc aaaggacatc accttatagc agaaccttcc ncacagggtg 360
 aagacacatg gtcttttcca tctctcttgg tggcatcttt atctg 405

<210> 17103
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17103

ctcaagcttg ctaaccatg gaagctcta atatctcca cactntntgg ggtggggcat 60
 ttttggatgg ccttgattnt ctccaggtcc acttggagcc catttctacc aaactacaaa 120
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 180
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 240
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 300
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 360
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 420
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<210> 17104
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17104

tctaaaggag gtcaacaaca ggatgggtgt aaggaaactat ggttgattaa actttctagc 60
 aaaataacag tttttgcttg gaggttaata gaagataggc taccaaccaa gatgaattta 120
 cataggagac atgtgcaact gcaggatctg cgatgtcctt tctgtaaaga agctgtagag 180
 gaggcactct atttgttctt ccattgcac ttcaccaac caatttggtg ggcacgatg 240
 tcttgggtga actatcatac tgcctttcct cttgggccta aacaaaattt tctacagcat 300
 atcttcaactg aggtaaaagg attaaagatt aagagatgga gatattggtg gatggcggtc 360
 acatgggcta tatggaaact cagaaacaga attctgtttt cgaatgcaga attngatgct 420
 aacagattgt ttgatgaggg ctgtttct 448

<210> 17105
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17105

tgatgataaa ggtgaaaaat gtatctttct tgggtgtagt gttcagtcac atttatataa 60

attgtataat oetaccacta aaaagatcat tattagtcgt gatgttggtt tttatgaaga 120
aagattntgg gaaaataaca tagatgaaac aaatcaaatt cttgcaaaat ttgatgaaga 180
gttgagagaca aggttgotag aagagcaaca aatttcagca atcacagttg aagatgaaag 240
ggttggatgatt attggttg cttggttgc atatttttgc ccttcaaat ttgaaagga 300
tgttaagaaa gaaaacgga gaaaagogat ggtgatgaa attgatcca ttaaaagaaa 360
tgatacttg ggattgtgtg atcttccaaa tggacataat at 420

<210> 17106
<211> 449
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17106

actcaagctt atctgctcat acattgcctc ttcttttgaa aaacatttct ctacgagaat 60
ctcatcact atcatctaga gcttggttgc tgaatgacaa gtgataaatg acagtcgaag 120
caactttata aagcatgatt tgaatagaaa agtataaatg tatactaata tataatatta 180
ttatagcgca ttaatatatc taacttataa ccatttattt atctctttta taatatactc 240
tcttttattt ccattttctaa cattaatctt aataaatcgt tctagaaaat ggttaatat 300
taattatcgt tatatcatat ttaaatgtt catcttcaat tcagaatata atgtatgaat 360
ttagaaatat ttayttatta taataaagat ttaattatat aaaaacaaat atcgtcttga 420
agaagcttaa ttgcctcta tctctatt 449

<210> 17107
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17107

tgacccttac gagtcagttt agtcaaatgt ttagctaac atgagaaacc ttctatgaat 60
ctcangtagt atcttgctaa gcccaaaaat ctctaatct caaaaataga tttaggactc 120
tcccattcaa gaagacttc tctctagag ggtctacaa ctatccccc ttgagatata 180

acatacccta ggaaactaac tttctotaac caaaactcac actntgacaa gtttagcataa 240
 agtntgoggt cctaagggt atgtagcaca atcctgaagt gttcttcacg ttcctctcta 300
 gtcttgaggt ataccaaaat atcctctatg aatactacca caaaactatc tangtaaggg 360
 ttttctctctt tttctctctt tttctctctt tttctctctt tttctctctt tttctctctt
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<210> 17108
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17108

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 ctatttcag attgggaatg cctctaacag cacttttgct aataattttc ttcattgctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattctct tttggagaata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcttttgatc 240
 tgcctgcctt cattaggact tcaactctct catttgctac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactan gaagtcacac atggactagc tttcccatc 420
 cagtgate 428

<210> 17109
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17109

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 taaaaagact tttctagtgg aggtggatgc ttcaggagtg ggggtcggag ctgttctcat 120
 acaagatcac cattccatag cctttataag tagaagctta aatgtttagc aacaatccat 180
 gtcaacctat aadaaagagt tactagctgt ggtgtttgtt gtacaaaagt agagacatta 240
 cttattacct aagcagtttg taatcaaaaac tgatcacaaa agtctcaagt atattcttga 300

ccagagaactt tccacagctt tccaacaaaa atgggttggtt aaacttatgg aatttgattt 360
cattattgaa tacaagtagg gaagtgagaa ccaagctgct gatgca 406

<210> 17110
<211> 119
<212> DNA
<213> Glycine max

<400> 17110
agcttattta tategaggcg ctcgaaattg aacaacggaa gctcttgaga aattcaaatg 60
gtcataaact ttaactcgga tgcacaattc atgcgcacaa catatagaga cgtcgaaaaa 120
tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180
tcaggcttat atttatatga gagctcaca atttaacata gaaagctctc gagaaattca 240
aatggtcata acttttcaact cggatgtccg attgcagcgc attacatata cagaactctcg 300
aaaatgaaca acggaagctc ccgagaaaact caaatggtca taacttttta caactgatgc 360
cgattccagc ctataatata tcgagagcgc tcaaatataa caacggaagc tcttga 416

<210> 17111
<211> 415
<212> DNA
<213> Glycine max

<400> 17111
agcttctggg gggacatctt gactagcttt ccaatctgac attcaccaca aattctgcct 60
tcttctatct tcagataggg aatgcctcta acagcacctt tgtcaatgat ttcttccatg 120
cctcttaagt gcagatgtcc aaatctttga tgcacatctc tgacttcata ttctttggag 180
gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtagca gatgtgcttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttta cattgaatcc ttcacacac agctgaactga tctgatacaa gtttcagctc 360
agtcccttca ccagcagtac ttgttcaga ctagggaactc catcatgagc tagct 415

<210> 17112
<211> 396
<212> DNA
<213> Glycine max

<400> 17112

atcttatctg ataaatgtat ttgtatgcat aattaatttc atgcaatata tttatgacta 60
tatattctaa aatataaatt gcattggtaa tatattaata tgtagaatgt ttgttttaca 120
tctgttctgt tttttttt tttttttt tttttttt tttttttt tttttttt
ggatataaac taacatctgtc atcacaattc aatctttta tttctttaa aagctatctc 180
tcaaaaaatc atttatagct aaaaaataac ttgaaaattc ttgtgttctc ttacaaacaa 240
tgcctaaaaa aaataaaaaa gagagaatga aaataaaatc gaaaatagtg aaggggggaat 300
attcatttga tctggaaaat attactacta ctatta 346

<210> 17113

<211> 434

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 17113

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agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaaag 120
aaaagcttac taaggcacct gttctagctt ttcttgactt ttctaaaaact tttgagctag 180
aatgtgatgc ctctggagtg ggagttggag ttgtattgtt acaagggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgcac ccttaacta cccacctat gataaagagc 300
tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaattng 360
tcattcatag tgatcatcaa tcaactaagt acatttagagg gcaaagcaag ttaaacaga 420
accatgcaaa atgg 434

<210> 17114

<211> 300

<212> DNA

<213> Glycine max

<400> 17114

tcaaaactgc aacaaaggag ttgagcatgt ataaagattc tttcttcaac tttagaggt 60
gaacttgagc gtctgtttat gtaggagtc caatcaattt ctgattatt tctcagaga 120

ttggcccgta tcaattaact taaaagaaat ggtgaagacg tttatgaagt gaaggteatg 130
 gaaaaaatac ttccaacttt acatccaagt ttgacttca ttgttaccaa cattgatgaa 240
 aapaaggatg taaagaccat gactatcgag caacttatgg gttoottaca agcatacgaa 310

<210> 17115
 <211> 17
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17115

tcaagaaaaa gatggcctca gcaaaactct tatctccaga ttggaattct atcaatagac 40
 ctccaatctt taatggagag ggttaccact actggaaaaa ccgaatgcac atttttatcg 110
 aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagagt tccaatagat ggtagtctat caagtgaag cacaaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
 taataacata tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgcct 360
 aggaaatgtg ggacaactctt cgattaacac atgaaggaaac tacagatggt aaaagatcta 420
 nngataatgc actaactcat gagtatgaat tat 453

<210> 17116
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17116

agcttatagc cttttcaaac gacaataact ttttactcgg atgtctgatt gagaactcgt 60
 atataacgag atgctcgaag ttgaatgttt aagctttgag ccaattcaaa cgacaataac 120
 ttttactcgg gatgggtgat tgagtcctgt catatatcga gaaactcgaa attgaatggt 180
 gaagctctga gccaaattcaa acgacaataa ctttttactc ggatgtgtga ttgagtcctg 240
 tcatatatcg agagctcaa aattgaatgt tgaagctctg agccaattca taagacaata 300
 acttttactc cggatgtctg attgagtcct gtaatataac gaaagctctg aaattgaatg 360
 ttgaacctct gaggacattc aaacgataat at 392

<210> 17117
 <211> 421
 <212> DNA
 <213> Glycine max

<400> ensure at all n locations
 17117

aaagattca atccagagc tctggtata ctacagc cttcatt caaat ttttaaaat
 aggttattgt cgtttgaatt tgcacagagc tcaaacattc aattttcagc gtcctcgatat 120
 atgaaggggac tcaatcagac atccgagtag aaagtatttg tggtttgaat tagctcagag 180
 ctccaacatt caatttcagag cgtctcgata tctgacggga ctgaatcaga catccgagta 240
 caaagtattt gtggtttgaa ttgctcaga ggtccaacat tcaatttcga gcgtctcgtt 300
 atatcaaggg actcaatcag acatccgagt ataaagttat tgtggtttga atttctcag 360
 agtttcaaca tccaatnttg agcgtctcga tatatgacgg gactcaatct tacatccag 420
 1 421

<210> 17118
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 17118

atctttaaca tagaaacctt gttagattag tgccttgaca ggcttgataa caagaacata 60
 ttgtgtgggtt tgacaagaac tatatacagc tcatgaactat tctccaacgc agcaccactt 120
 ggaaggggttc tacacccaat gagagtcgag gttgtgttga ttgccaaagt tcaacataga 180
 aacctagtta gatttttggg ttaactgtgtg gaaggagaag aaaaaatgct agtatatgaa 240
 tataagccaa acaaaaagctt ggatgctacc attatttttt gtaagactat ttattgcatt 300
 tgaattattt tgtttaagtg cttttttttg taactcaaa attctatttt gaagtagact 360
 aatgtaattgt atcatgcccc taatgaacta caagactgaa agttgtgtgt 410

<210> 17119
 <211> 430
 <212> DNA
 <213> Glycine max

<223> ensure at all n locations

ctaattgattt aattttttta taggaattca cttttttaat tttcataata aaaaatgatt 240
 ttaataaaac aagtcatttg tcaaaaatgt tattataagg aaaaatttac tagaaataat 300
 caatcaaaat tactcatcaa tagatacttc attaaattac ttaaaatata acattatagt 360
 catcaataat taaaaggata taaacataaa atcaactact aaccaaaacc taaataat 420

<210> 17122
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17122

agctttaags aaaatcaatc aacaataaca ttttactctc ctgtccgatt gtctcccggt 60
 gtatatcgag acgttcgata ttcagaatag aagctctgag caaaatctaa tgacaataac 120
 tttttctctg gatgtccgat tgtatccctt agtgtattga gacactcgaa attcagaata 180
 gaagctctga gcaaaatcaa atgacaataa ctttttactc agatgtccga atgaatcccg 240
 taatatatcg agacgtctga aattcagaat tgaagctctg agcaaaatct aacgacaata 300
 accttttact cagatgtccg attgtgtccc gtagtatatc gagacgcacg aaattcagaa 360
 cagaagctct gagcaaaatg aaatgacaat aactttttac tcggatgt 408

<210> 17123
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17123

agcttgtgca ttaaatatcc taatgaggyt gtcccatatg ctctcaaaac tggactaata 60
 catttactgc ccaagtttca tgatcttga tttgaagatc ctcaataagca tcttaaggag 120
 tcccatattg ttgttccac catgaaaccc ctgtatgtcc aggaagatca tatctttcta 180
 aaggtcttcc ctcatctct ggagggagtg gcaaaagatt ggcataacta ccttgcctcc 240
 aggtccattt tcaagctggg tgaactttaa aggggtgtct tggagaaatg ttcccttga 300
 tctaggaaca ctgcctcaa aaagacatt tcatgcatca tgcacattat tggagagaga 360

ttgtatgagt attngatag attcaagaaa ttgtgtgcaa gctgtcctca ccacc 415

<210> 17124
<211> 410
<212> DNA
<213> Glycine max

ttgtgtggtt ttttgatctt agataaaact aatgtgtgta aatttatatt gtttgaaact 60
aatttataag tgatatgatt aatgtttaga tattttcatt atgaaactta agagtataat 120
ttagtataat ttttatatca aatctaaaaa ctattcaaaa ttatttaaac ccaaaatcaa 180
ttatagatcc aaattcaatt ttcaaactct ctgtatgcat aaaactaaag acaagagtat 240
atctaaaata aattctaaac tcaaaataaa ttcttttaca tcaaactaaa cacatgatga 300
tatttatatt ttagtattga atttataaaa tattaaacct aattctaatt ctgaggggtga 360
tttttcggtt ttaagatatt agatgttgc ttaagttgaa aatagataaa 410

<210> 17125
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17125

agcttaacat cagaccactt ccaggggtgt ggaactactt cacatggact tgatggggcc 60
tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120
cagatttacc tngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcctc aagagaatta ggagtgaaca 240
tggcagagag ttgaaaaaca gcaagtttac tgaattctgc acatctgaag gcataactca 300
tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360
tttgcaagaa gctgttatgg tcatgcttca tgc 393

<210> 17126
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17126

```

tctatgcctt ggatcttgtt catcaatgtg tttccattgc ttcttgaagt tcaactggcag   60
atgaatggag aagaaagaaa tatgattgga gatggaactt caaggagaag atgagtcgaag  120
tctatgcctt ggatcttgtt catcaatgtg tttccattgc ttcttgaagt tcaactggcag   180
atgaatggag aagaaagaaa tatgattgga gatggaactt caaggagaag atgagtcgaag  240
atcaatgatg ccaaggccta caagctctac atggagctac atcatgttgt atcaaagcat   300
ctctctctac gtgaggttct attgcttctt ctatcttttt gtttggtcaa ttcactttaa   360
ttcttgttct ttcttcattg atctctctca ttgtctctgt gtttggtgat gtttagagta   420
gattaaaaaa gataac                                     486
  
```

<210> 17127
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17127

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agcttttgaa gcactgtagg acaggtgcct gttgctgaat ggaactatgt tttcaattcc   60
tttgagtttc tttttctatc tttagtaaaa tgtgatttgt tctttgaatt tcttcaacct  120
ttgtccaatg ttcacttgat tctaatttat agaatgagca atttagatgg tattattggt  180
ttgtctgata aagcagaatg ttaaatgcaa ttataagta tatatttata agtaaattgg  240
catcatttcc tgcgaactca tacaattaaa cctattgtat ctatgctaaa taagaactta  300
aaatgaacta tataaaatta tttaattgca cgaatganat tatattcacc taagagcttc  360
aattatttga attacgcagc aattntatga acgctgttg                                     399
  
```

<210> 17128
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17128

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agctattctt ctgtgggtga tgggttctgt ctcatagaat ggcattgaca ctggctgaca   60
tggtctcaat taactcagtt gcttcttctg gggctcttcag ttttatcttt cccctgcag  120
  
```


aagpatotaa caattgottg gtttatggtc tcaabccatc tataaacata ttaaategaa 130
 ttgggtcata aaacotatyg gtgtgagttc tttcacaata accctctgaac ctctccaatg 240
 attcactcag agattcactc gggaactgat ganatgaaga gattgcagct ttcctctcag 300
 agatctctc cctctctctc tctctctc tctctctc tctctctc tctctctc
 tctctctc tctctctc tctctctc tctctctc tctctctc tctctctc

<210> 17129
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 17129
 agcttgggaa atgggttggga aatcttgcta aaatcctaga taaatctctt gtaaaaacttg 60
 gatcttcagag aaagagaagt acttcccgca cagatgcgtc gtaaggaaga gaagtaataa 120
 catcgatctt tgccttatcg aactcaatac ctctactaga gactgaatgc cctaagacta 180
 taactccatg gaccataaaa tgacattttt caaagttaag aacaaggtta gtctcagcat 240
 cggtaagaa ctctacagag gttatccaaa catgcacaa aggaagaacc ataaacaatg 300
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
 caactttgga aggtgcacag agcgttgcat 390

<210> 17130
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17130
 agcttgatcc aactgcagtt ggcaaaaatag tggcatatgt ggaaaacaat taattaatac 60
 aacttttttg tgcattggaa atgaaaaaaaa taaggatgat atcttgtaaa tggaaaacttg 120
 gggattgttt ggttggacca atttatgcag atacatatac atttgaattt attttctga 180
 ggttaatttc agtcatgacc tcttgggaagt aattatgtct tttgcttctt tggatatatt 240
 gtggttccca ttcctaattc atttttaatt atctgcacaa gggtaaaaat caaatcttctg 300
 atcttccat taagaaaagg agtgacatct gtacaataat gtataactagt ggaactactg 360
 gtgaccccaa tggagtgttg atatcaaatg agaghattat tactctctta g 411

<210> 17131
 <211> 445
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <215> 17131

tttattatag aattctatag gaggtagagt tattcttggc tctcttctc ctttaagtag 60
 cgtctcaaat cacctttact ccttctccat tccactgcca ttgatcttca agaagcaaaag 120
 gactccattt atgaagaaga tccaaggcct acaagctcta catggaacta cattataaat 180
 ggagaatgtg tacagattgt agggctatca acaacataac tgtgaagtat aggcacccca 240
 ttcttaggct tgatgatatg cttgatgagt tgcattgtca aacatatttt ccaaaattga 300
 tttttaaagt ggttatcacc aaatagggat tagagaaggt gatgaatgga aaaccgcttt 360
 caagaccaag tttgggttgt atgagttgct agtgaatgac tttgngctca ctaatgcacc 420
 aaacaccttc atgaggetaa tgaat 445

<210> 17132
 <211> 407
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <215> 17132

agcttgtaat cgattacaca tatactgtaa tggattacct gagcagattt tcagaaaata 60
 ttctcaacag tccatctctt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gcgaagagtt ttccaaaaca aaaaagtctt atctctttat 180
 aaagcaaaat tgttttatcc tcttcaaaat tcttgggcca aattacttgt gattcaataa 240
 ggaatttttg agtgcacaaa ttgttcaatc tatctcttcc aagagagatt tcttcttttc 300
 ttcttcttca ttctgaaaag ggattaagag accgatgggc tcttggtgtg aaagacatct 360
 aaacacaaaag tgatgtgaac cttaactgtc agggatcgtt tgataca 427

<210> 17133
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17133

```

agctntggag tttccaagtg ccaatttgto tttttcctta gtccagtctt cttctggctt   60
caatccatca gggggcttgc ctctgttgc cagcacttg aaatgttccc agcctttgat   120
caatccatca gggggcttgc ctctgttgc cagcacttg aaatgttccc agcctttgat   180
caatccatca gggggcttgc ctctgttgc cagcacttg aaatgttccc agcctttgat   240
catgttcata agaattttat tccctagatb tcaactcagtg atttcagagtg ttggctctga   300
taaccaattga aattctgata ctggngacag atgttcgtaca ggaatgtcacg acatcacgct   360
tcagaacatg cagattgtat ttgacagtgt gcacagttta agcaagt               407

```

<210> 17134
 <211> 407
 <212> DNA
 <213> Glycine max
 <400> 17134

```

agcttctcca tgcaaaacttc attaaagagg tcaggttttg tacttggtt gccaatgccg   60
tcattggtcaa aaaggccaac ggcaaattggc gaatgtgcac cgaactaact aatctgaaca   120
gggcataccc caaagaagtg tactctctcc ccagcatcaa taggttggtc gatgaagcgt   180
acgaattcca ggtgctaacc ttcttggatg cctacttcgg atacaactag attagaatgc   240
atcctctaga tgaggagaaa atgaaattca taactaaaaa tgtcaacttt tgttacaagg   300
tcataccatt cggcctagaa aatgcaagcg cgacattcca atgaccaatg gaccgagtct   360
tcatacaaca gatcggacga aatgtcatgg tatatatgga tgacatg               407

```

<210> 17135
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 17135

```

agcttctcaa tagagttagg caggtaactc tgttaataagt cttaaactct atcctacat   60
acattatgca aaatarucag ttgcctccc tctagagctt gtaagccttg gatctcttc   120
atcaatggag tctcttgctt ctggaagatc aatgttaata gaatagaaaa ggaagaaaag   180

```

tgattggaga tgcgaattca aggagaagat gagtcaagaa caagttgacc accataagaa 240
 gccatggata agagcctgaa gatagaataa gatgagtga gggagagga gatgatggc 300
 abgaaatcta tttctacat gaggtctgaa atttgaagtg taatttctca aattatcaaa 360
 gttgaataa atgaaaaa 420

<110> 17136
 <111> 308
 <212> DNA
 <213> Glycine max

<323> unsure at all n locations
 <400> 17136

agcttcacag tttatnttt tcaaaactga gttttggaag accaattact aagtctttcc 60
 taactagatg atataaatga tggatgttaa tgtgttcaac cctacaatgc cacaaccatg 120
 atctcctc tctcttactc accaagcagc ttagtctatg aaaagatgca tgcctcaatc 180
 ttagcatata aatattacct attctcttac caatgtggac aactttacca gatatggctt 240
 caattataag atagcaattt ctgtcaaact caatcttgaa acctttatcg caaagttgac 300
 taatgtttag aaggttatgc tttagtgcac ccatatgtag cacattcttt atctgagttt 360
 tgtgttaatt ccttatattt ccttccccag ttattttt 393

<110> 17137
 <111> 452
 <212> DNA
 <213> Glycine max

<400> 17137

gcttcatgat gatgaatcaa gttgatcaa gtagttttga tgattacaaa gatgatgaca 60
 aaaagcccaa gagaatgatt tcaagattga ctcaacaagt ttcaagaatc aagagaagtt 120
 tgatttcaag attcaagaga agatgaattc aagattcaag agaagaaatc aagaagactt 180
 cacaagggaa gtattgaaaa gatttttcaa aaaacaaaaca tagcacagtt tttttttca 240
 aaacagtttt tctcaaaatt ttcaagctc ccagagtttt tactctctgg taatcgatta 300
 ctagtctcct gtaatcgatt accagtgcca aagtttgatt tcaaaagttt tcaactgaat 360
 ttgcaatctt ccaatttaatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcgat 420
 tactagtata tctgaacatt ggaattcaaa tt 452

<210> 17138
 <211> 441
 <212> DNA
 <213> Glycine max

<22> unsure at all n locations
 17138

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ctcaagcttg gatttccttt gctctggaaa cctctccctt cttaagtgaa cccaaaatga 60
cctctccaga ttggaaaata acctttttgt gcccttgggt tgcctgttta acataactct 120
cctttttctt tccaatttgg gccttgacta ttcatggag ctttttcaca tagtccactt 180
tggcttcctt ccttatgctt aaaaactgaa atattagaca ttggtaacaa atcaagagga 240
gttagtggat tgaaccata agcaacctca aaaggagAAC aactagtggg gctatgcaca 300
acctaattat gagcaaatte aatgtgaggt aagcaaacct cccaattttt aagattcttt 360
nccaaaatgg tccctagcaa ggtaccocaa gtccattcca cgaacctcgt ttgtccatcc 420
cgttgagggt gacaagtagt a 441
```

<210> 17139
 <211> 446
 <212> DNA
 <213> Glycine max

<22> unsure at all n locations
 <400> 17139

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tgcccagaga aggagtccac ggaggaaatg cttaccaact ttttaagaatg gaaagcgggt 60
tctaataact cctctgggga ctccacataa ggcataagagg aagggcagct caccaagatg 120
tctctcttgc ctgatacgat gaccagatgc ccttccacta cgaatttcac cttttgggtgg 180
agtgtagagg gaacaacccc caatgagtgg atccatgggc gcccacaacag atagtgttag 240
gggggggttga tatccattat ttggaagggt acttgacagg tgtgaggggc tatctgtact 300
gggagatcga tctctccctt aacctctcgg tgggtgcctt cgaaggcagc aaccaccatt 360
gaacctgggt ntaagtagga ggcattgaat ggtaattttt ccaaagtgtt ctatgcac 420
acattcaaac tgggaaccatt atcgat 446
```

<210> 17140
 <211> 405

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17140

 agtgggatt tgggtgggtg gttatgacgtc tgggtgggtg tgggtgggtg gttggtggtg 60
 tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg 120
 tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg 180
 tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg 240
 agtgggattga aacgataaac aacctcaaaa ggagaacaac tagtgggtggt atgcacggcc 300
 ctatcataag caaatccaat gtgaggtaag caaacttccc aattnttaag attcttttttc 360
 aaaaagggtcc ttagcatggt acccaaagtc ctattcaaga cctcc 405

<210> 17141
 <211> 349
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17141

 tatatatnca atagtattta tatggtctat ntatgtatat gtgntatatt tgataaatga 60
 atagtttgag gtagtataag ataacaattt tgtatagttt agtttgaatt gttaatgtta 120
 tatatgccag attatntttt gataaatgaa tagtttttagg tagtataaga taataattct 180
 gtgtaattta ttttgaattg ttaatgttat atatgccaga ttatatatttg ataaatgaat 240
 agtnttaggt agtataagat aataattncg tatagtttag totgaattat taatgtttata 300
 tggtagatat gatatacggg tatatgataa attagtggtc caacctacc 349

<210> 17142
 <211> 369
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17142

 tgaatgataa ccaaggaatt tgaatgaagc caaaagccca tgggattgat tcaagacttc 60
 aagaatcaagc atcaagaatc caatccaaga ttcaagagaa gaaatcaaga cgaacatgt 120

caagacttca tataggataa gtattaaaag aatttttcaa aaaccaaata gcacagtttt 180
 gttttacaaa agaattttct caaaattntc taagctacca gagtgattac tctcragtaa 240
 togattacta gttatcayta atcgattacc agtgaccggt ttggttntca aaatgttttc 300
 aatgattta taatgttcca aaatgattnt caagtaggt atcgattac attcattag 360

<210> 17143
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17143

agcttgatc ggacatctgt gtgaaaagnt atgaccattg gaatttttta tgagcttcca 60
 tnttaaatt tcgagcctct caacatatta tgcgcctgaa tcggacatcc gtgtgaaaag 120
 tcatgatcat tngaatttct cgagagtttc cgatgtttta ttctgagcgt attgatatat 180
 tataaccttg aatcggaact cagtgtgaca agttatgacc atttgaattt gacgagagct 240
 tccgttggtc aatttcgaat atcactatat gtgatgcgcc taaattggac atccgtgtga 300
 aaagttatga ccatttgaat ttctcaagag ctccggttgt tcaattctga gcgtctcgat 360
 acgtgattng catgaatcgg acatccgtgt gaaaagttat gaccatttga at 412

<210> 17144
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17144

ttcgttttct tctattgtcc agctttcttc tggcttcaat tcattagtgg gctgtccttc 60
 tgtgtccaac atcttgggat gtcccagcc tttgatgaca gctatccacg ttctgtatc 120
 cagtgatccg aagaaggcca ccattcttgc ttcccaggat tcattagatgg ttccatccag 180
 aatgggaggt ctgtacacta ggctctcttc ttctccatg ttcattcagaa ttcatctccc 240
 tagatctcac tcagagatt ccagtgccc ctctgatacc aattgaaatt ctgataccaa 300
 tgcagatgt cccacaagat gtacagacat cagcttccag aacatgcaga ttataattga 360
 gagtatgaac a 371

<210> 17145
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400>

ctttagctaga ctttagctaga ctttagctaga ctttagctaga ctttagctaga 60
 gtaagggaaga attttctcaa gaacacccca ttaaggctat cccagctgaa aatagacctg 120
 atagaaaggt agtataacca atcttttggc actccctcca gagaatgagg aaaagccttt 180
 taaaagatat gatctctctg gatctcaggg ggcttgatgg tgaacacaaac aatatggaac 240
 tctttaagat gcttataagg atcttcacct gcaagacctat gaaacttggg cagcanatgt 300
 attagtccag tcttgagaac atatggaaca cctttatcag gatattgaat gcataagctn 360
 tcttaagtga aatcaagtgc agccatctcc ctaagagtcc tatcac 406

<210> 17146
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17146

gaagctagat ctttagctaca catacctctc taatatgctt atctcacctc cttgagatga 60
 gaagctagag ctttagctaca caccctata atagctaagg tcaccccccac gacaaaatac 120
 atgaaaatac aaaaaaaaaaag tccctactac aaagactact caaaatgctt canaatacaa 180
 ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240
 tattctaata ttacaaaaga taagcgggct catactttagc ccatggaetc aaaacctacc 300
 ctaaggctca tgagaacctt atggccttcc cttggatctc tggcccaate tacttggagt 360
 cttctatcca atgccttggg agggtaggat tgcacacct atcac 405

<210> 17147
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 17147

ttcttgttgc cttggatctt cttcatcaat ggagtcattt gattcttgaa gatcaatggc 60
 aatagaatgg agaaggagga aaggtgattg gaaacgccac ttcaaggaga agatgagtca 120
 agaacaaggt caccatcata ggaagtcatt gataagagtt tgaaggtagg agaaaatgag 180
 tcatgcaatc agaaatcttc cttctctt

<210> 17146
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17143
 tttctttttt gttcaattat gagtgggttg atatatgatg cgcctgaatc ggacatcoga 60
 gtgaaagggt atgaccattt caattttctg agagcttcct tggttcaatt cagagcgtct 120
 ccatatgtga tgtccttgaa tggacctctt gtgtgataac ctatgacctt tgaatgtct 180
 cagagctctt cgtctggctca tttcagacat ctcaatatat gatgtgcctg aatcaaacat 240
 ctgagagaaa agtatgacaa tctcaatttc tcaagagctt cgtttgttca attccagagc 300
 tctcagatag tgggtgtgct gaattctgata tccagtgat aagttatgac aattttaatt 360
 tctccagagc t 371

<210> 17149
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17149

ntcagagaatn taaaattgtc ataacttttc tctctgatgt cggatttcatt cacatcagat 60
 attcagacgc cagagattga acaatggaag ctctcagagaa tttaaaattg tcaatacttt 120
 tcaatcggat gtcctgattca ggaacatcag atattctagac gctcagaaatt aaacaacgga 180
 aactctcagc aaattcaatt ggtcataaatt nttaactcgt atgtccgatt caggcgcata 240
 atattattgag aagctcagaa ttgaacaacg gaagctctct agaaatttaa atgacataaa 300
 catttcactc ggaggttcaa ttcaagcgca tcatatctct agacgtctgt aattgaacaa 360
 tggaaacctt ggaaatttta aattgtcata acttttcaat cggatgtctg attc 414

<210> 17150
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17151

atgagatgac atgagatgac atgagatgac atgagatgac atgagatgac atgagatgac
 agagagcaag aatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 gaaagcggta tgtgcccgtt agttactcaa aggacttgaa attcaagctc caaaaaactaa 180
 ccaaggcaca caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggttaacta tggctcgatt tottaaatggt ttgactaatg 300
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatntg cttcacaag 360
 caatccaagt ggagcaacaa tt 382

<210> 17151
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17151

tactcaagct tgaatcgaca tccgtgtgan aaggtatgac gatttgaata totttagatc 60
 tccgttgggt caatttcgag cttctcgaca tattatgcac ccgaatcgga tacccttgtg 120
 aaaagttatg actatttgaa tttccgaga atttccgatg ttttaatttcg agcgtatcga 180
 tatattataa gcttgaatcg gacatccgtg tgaaaattta tgaccatttg aattttctcaa 240
 gagcttccgt tgttcaattt cgagcttctc gatatgtgat ttgcttgaat cggacatccg 300
 cgtgaaaagt tataactaatt gaatttcgca agagcttccg ttgttcaatt ttgagcgtct 360
 ccatatgtga attgcttgaa tccgacatgc gtgtgaaaag tata 404

<210> 17152
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 17152

ttcttggtttt attttaaaac caagggccacc atcttttgtg caatttgatt gcattgttgac 60
 tttggttagca tgaaacatct catcacataa gaaggaatag cttgcaccac tgactttatt 120
 agggcactca tcttgctttt gaaaaagtct tctccttcca acctttcagc ttcttccaaa 180
 gttatctt agaaaaatta aacacttgag tcttgatct ccccaatttc gttgttgatc 240
 ttttggtt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420

<210> 17153
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17153

tatactctct ccattccata ataatagtcg tgtaagaaaa taattattgt cccaaaaataa 60
 ttgtcattnt agctcttcaa tataatatta attgtttttt ttcacttata tcccttataa 120
 tattaatgat atggactaca aaaactaaaa atgaattaat gatgataagg ttaattttgt 180
 aaaattatta ttctttttca tttgcttatt agttcttctt ggtctgagta aacaaaactgg 240
 tatgggaaga caattataat gagatgaagg gagtataaac tctcctcctt ggtgcataca 300
 gacacacaat ttcagttcaa tgcctttggt tctctttct taagatggta ttggagccta 360
 tcttaaactc attaccgata acctaccata ttatccatgc accanacca aaaagtactg 420
 ggcgtg 426

<210> 17154
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17154

tagaaaaatn atttcacgag aacataatag taaatttaac atttttatgc ttacatagat 60
 aatataatac tactataaga ctattaaagg agtgtgtgta agaaaaataa taaattaatg 120
 tccacaagag ttgaacacaa gattttttta ttgaggggat tcaactttac tagttgactn 180
 taatcgtcat ttttgcttgc tttagagtta gatgcttatg ttgagaaatg ggagatattt 240

tatttattta atttaagata aagtctttcc gttgtttact cttgaatctt gatcaatgat 300
aaagaacaaa ttgtggaatt cgaagaanaa gtaccaaaaa cacctttntt tegtgtattg 360
gattatgatt taaaaaaatc tggtaatata atgtaatat tttaattaagaa ttttaggaat 420
tttttanaa agttaacaaa atgaattntt aaactttta aaaaaatctt ttatattaaa 480

<210> 17155
<211> 369
<212> DNA
<213> Glycine max

<230> unsure at all n locations
<400> 17155

attgnccttat catatgaaaa ttatatagtg attacattnt acacatatat actataataa 60
tgagtatant tttaaaaata aagaatctag gttcatgaat cgtaaacaga ttcctaaagt 120
aaacttaagt aaatatatat catatacaaa attataatct aaaatgagtt gtctgagttg 180
tatcattaaa taaatttata aatttatact acaaatcagg atcttatcta tatattccaa 240
aatgaatga atatacacta attatattga aaatgcaaac tacaaggaat tcaaagcaca 300
aattaattca atatttatat cacaatacac caaaattcaa ccaaaaatta ctgcataata 360
atttcaata 369

<210> 17156
<211> 395
<212> DNA
<213> Glycine max

<400> 17156

catgaaaaga cctatgcctt ttcttttaac ttctccaaat ggggagtcct aacagccttt 60
tgctttcccg gagagtagta gagtcactct gaacttcctt ctcttggaac ataactcttg 120
ggcttgctag ctcatcacca ctcttgggga gtggacctga gbaaatatca atctttccct 180
tgcttgagaa tcttcattga taccagctc taagtcttta gagaaagcct catagaactt 240
ggttgaatcc tcttgggtct ctgtcattac atagaacagc tcaatgcact tcttgaccaa 300
gctcttacgg atgaccttca agatcttgat ctgggtgcaac atttcatctt gaaatgcctc 360
ctgggagatc ttcagaatca acaataccct ttgac 395

<210> 17157
 <211> 403
 <212> DNA
 <213> Glycine max

<214> ensure at all n locations
 <215> ensure

ttttagttata ttttgaagt ccaaatgtca ttccaaagca gtaacattt aaatatattaa 60
 caaaaaatat tattaatatga gctaattaag atattaatat aaaataataa tgaaaaaatc 120
 ttgcttttcta attttaagac aatttaaaaa attataataa gtaaaatata agtcgcatat 180
 ataatttaat aaactattaa ttgggccttt ttaaataattt atttgacatt gattntgctt 240
 ttaattttta gtgagatgga gtgagtcttt taaacattga aaagtattaa aatctttttg 300
 tttatgggag taagtctttt attntaatta tgttaagtttg ctctttacat ataatagaaa 360
 ttgcttttct catatatttt ttttatgaaa tgcgagatga gtg 403

<210> 17158
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 17158

tatataacac tcaagcttgt gggaagacac tgcacgaatc atcatcatca caactcttga 60
 tacagctctc tctagacgcg tactttgcac gcttctcttc gcacagctat tcttgcactg 120
 cggctggttg ctctctatgc tctcgggttg ctctctcttc tttacctctt acgggtgcttg 180
 atatacttaa agatgggtaa ggcgagttc tgcaccccg tatgggttaa ctacctatc 240
 gctccttgga tatcgtggat tctattgctt caatcggagc catctgtggc gcaacaaca 300
 gcaacctact tggttctgtg gaggtgttc acgggtgcgg tggtagtgct ggacgtgaag 360
 atctac 366

<210> 17159
 <211> 415
 <212> DNA
 <213> Glycine max

<223> ensure at all n locations
 <400> 17159

atctnatgta tgaagagttc aaaatgagta tgatgggaga attgaagttc ttccctggac 60
 tttaaatcaa ggaagoggac gaagyaatat gcatacatca aaccatgtag tgaaaaaact 120
 tctgaagaag tccaaggtgg acgatgcaaa gcatatgaaa acccccatgc atcccaaccat 180
 ctactctgga ctggatgatg aatcaacgaa ggaggatgaa atgagatgaa atgagatgaa
 gatctctc ctactctc ctggatgag ctactctc atgagatgaa atgagatgaa
 tcttagattc caaaaggaac caaggaaaat tcatttatat gatgttaaac gcatacttag 240
 atatttgatt gaaacttcta accttggtct ttgctttaag agagaaatcg aatac 415

<210> 17160
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17160

ctntanatga gcttcacctt tctcgcgact atcatgttgt ctgtctcgtg tgettttagt 60
 ttatctana tttatcaacg attagtcaac acaaagttac catctcaact tcaaaatatt 120
 ttctgcttta aaaacacatc aaaatatatg ctactttaga aaatcaagat caattatatt 180
 tattttaata atatttttgt ttattttctt agtatagact atatatatct ttaatcagaa 240
 cattatgaag tatggaggat aaaatttttag ctntgaatct ttaacacatt tacatatcca 300
 aaaatatatt cattattggt atcttatgtg aaatatnta ttaatttaca atattatact 360
 gtaactcctt taatgaaaat attntaataa aagaacatga gaccagctta ttaaaaatta 420
 aaaaatggaa acttatcaca cttaaccaag ctagtcaaaa caaatatta 469

<210> 17161
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17161

agcttgatac gttcattcgt gtgaaaagtt atgaccattt gaatttctca agagcttccg 60
 ttgttcaatt tcatctctct cgacatattt tgcacccgaa tgggacatct gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagtttc cgatgtttaa ttccgagcgt atcgatatat 180

tataaaccctg aatcggacct cagtctgaaa agttatgacc atttgaattt gacgagagct 240
 ccggttggtc aatttcgaat atcaactgtat gtgatgcgcc taaattggac attcagagtta 300
 aatgttatga ccatttgaat ttctcaagag ctcccyttgt tcaattctga ggcgtctgat 360
 atggattcgc cctgaatcgc aatttctca tcaaaatctt tcaatttca atttctg

<21> 17162
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17162

ttctntttgg tctcgagaag aaataacatg ttgttcacat tcaaaaaggc ggagaatgtg 60
 aatgtatgta tacatgattt tgatgatgtc aaagaagaat ctaacaaggc tacttcaaat 120
 gataagcatt tgcctcaaga ataattcaag attgcttcaa caaacaatc cttgtttcaa 180
 gattcactaa agaccaagcc ttgccttaaa acaaagtgtt ttcaagacat gcaaggetct 240
 ggtaatcgat taccaggaag tgtaatcgat taccgaaga cagggttgag aaatagctgt 300
 tgaaaaaggc ttggaatttg aattntcaac atgtaatcga ttaccatctg tctgtaatcg 360
 attaccagca acgaaacttt ggaaattcan attcaaaagt cattaacct tc 412

<210> 17163
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17163

ctaattntaa tatgatacat tattgaaagt tttagctntt aaatagtcac tattataatt 60
 attgttttat ataataatgt aaaactataa taaacagaac ttggattata attttttaca 120
 tctacagtaa attctatttg taataattca tacacataca caagttaatt taaaccatca 180
 ttgagatctg gtttttatat tacctaaccg gcaactagggt atacgagagc atcattctcc 240
 caactcattg tgcaagttaa tcaatttccg ggtttttaac aaagattcaa tcaaaatgat 300
 ccatcatgaa aaagttcata ttaaaaaatg aaccaaccgt attttcacia atgagaaatc 360
 tactaaagt ttgaattaac catcaacatt gtaaaaaact aaatttgatc tggcttgata 420

ggatgctcac cgaacttata tttagccatca t

451

<210> 17164
<211> 390
<212> DNA
<213> Glycine max

<400> 17164

agcttggaca atggcagtga aatcttggta aaatcctaga taaatctctt gtaaaacttg 60
gatgtggcag aaaagaacgt atttcccgca cagatggctc gtaaggaaga gaagtaataa 120
catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
tacctccatg gacataaaaa tgacattttt caaagttaag aacaaggtta gtctcagcat 240
cyytcaagaa ctctacagag gttatccaaa catgcaccaa aggaagaacc ataaacaatg 300
taatactcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
cactcttggg aggtggcagg agcgttgcac 390

<210> 17165
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17165

agcttcttat cctaggctca tcttgggtgt gaagctcctt ctcccatggc ttactccta 60
gtggatggcg tctctctcca ctctctctcc tttgtcttcc gctgcctctc catggtgtaa 120
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
gcaagcttcc atcactgagg acatggaaag gatgatgttc gtcacccttt ggggaatggt 240
ctgctacaag gtgatgtcct tttggcttaa gaacgctggg gcaacctacc aacaggetat 300
ggtagcatta ttcatgata tgatgcacac aagaaatgaa gtctacgtgg atgacatgat 360
taccagttct aaaccgagg agaaacatct catcaactt 399

<210> 17166
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17166

tataactgat gagaataact taattgataa tatatacgtt tattttgtag ataagatctg 60
 gatttgatta tcaataata tatgtttaga acagtaatag attttaagtg tgattaaatc 120
 ttaatttta aatgtaagat tagtattata tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tagagatntc tttatctttc ctactcttat gaaatagatc ctttatataa tatgagacac 360
 cttaagtacat tatcatattt ttctctcata ttattccag 400

<210> 17167
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 17167
 catgcaacaa ttgttagccg tggctatacg agacatcttg ccaaacaaag tcaggttcac 60
 cataactcgc atgtgctttt tcttcacatgc tatatgtagc aaagtgattg atccagtaat 120
 gtttgatgag ttggaatatg aggcgcgaat tatactgtgc cagttggaga tgtattttcc 180
 ccttgctttc ttgacatca tgattcactt gattgtgcat ctggtcagag aaatcaaag 240
 ttgttgctct gtttatctac ggtggatgta cccggttgag cgatacatga agatcttaaa 300
 aggttataca aagaatctat atcgtccgga agcatctatt gttgagaggt acatt 355

<210> 17168
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17168

ctcgagaacc aagccaatca gaatgctaga cgaatatag atggttatat atgtaacaat 60
 ggtgataatg acggaccgag gcataacccg gttgagggag taaagctcaa tgttcctccc 120
 tcaaaaggta gaatgctac agatgctac ctggacggg aaagaagac tgaacacata 180
 ttgacctgta atgaactaac tgatccgcaa aaagtcaagg tagcagcagt tgaattctcc 240

gactatgccc ttgttttggtg gcataaatac tagagagaaa tgttgagaga ggaacgggga 300
gaggttgata catggactga gatgaaaagg gtgatgagaa aaaggratgt gccactanc 360
tataacagaa ccattgagaa gaaactccaa gggctgtccc aagggaattt aaccatggaa 420
gaataatata aggttttga aaagggttca apat 484

<210> 17169
<211> 171
<212> DNA
<213> Glycine max

<400> 17169

agcttagtaa agttaagcac taacaatctc ccccttggg aaattttgtc taaaacatac 60
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120
cagagtaato aagcacagcg gaaattctgc atgttgcaag tegtttccag gatgtcaaga 180
catctacat gacatcagct ttctgctctc gctccccctg tctccatgtc tactgcagca 240
tcttctaaca gctactagtc ttttccagga tgtcaagaca tctcatgtga catcagctgc 300
tccccctgtc tccatgctct tactgttgca tcttttatca gctactagta gcttacacca 360
gtcatcatca gcagcagcag tctccccctc aaatcatata catacaactc c 411

<210> 17170
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17170

tactcagctt cctcaagatc ctcttatctc cctgttgaaa tctcatntgt ccattagtgt 60
ngggttggtaa ggtgttgaaa tctgtgcac gaccccatat ttntgagca aggcatacat 120
ggatctatta caaaaatggg tgccttgatc actaaagatg gctctagaga ctccaaaact 180
gcaaaacata ttgatctaa caaaatccac aacaacttta gcctcgtag ttctggttgc 240
tntaacttcc actcacttg aaacataatg aacaacaagg agaataaaa caaaacccaaa 300
agagacaggg aaaggcccca taaagtctat acccaaacat caaacacctc acagaacaac 360
atgggttggt gaggcatttg ttgtctcat gaaagtgaag cgcctgctct ctgacaaggc 420
tcacaagtgc tacacattct ccaagcctcc ttgaagatgg tgggccaata gaaaccacag 480

tcaagcact

489

<210> 17171
<211> 418
<212> DNA
<213> Glycine max

<400> 17171
17171

atcagctcg gaccgggat cctcttagtc acctgcagct gcagcctttt tgtctcttta 60
tctcagaggg actgatggtc actatgaatg acaaatctct tgagataaag gtagtggtgc 120
catgtattca aagcccgtaa taatgcatac aactccttat cataagttga atagttaatg 180
gtaggaccac ttaactnttc actaaaataa gcaattggat ggccctttttg catcaacaca 240
ggccgaatcc caacatttga agcatcacac tcaatttcaa aagatttttg aatggttggc 300
aacgcaagta tggnggcatt agctagctct tgetaagatc attgaaagct cttcttgttt 360
ctctcgccat atgaaccaac atttttttga cacttcatta gaggtgctgc aatgtgct 418

<210> 17172
<211> 444
<212> DNA
<213> Glycine max

<400> 17172

tgatatttgc gccatagtag gccagatatt gattatggta tgggttttgg aagcagatat 60
atgaatgata taaggacttc tcatatggct gcagtaaaga gaattttgag atatgtgaaa 120
ggcacacttg attatggctt cttattctcc aaagcaaata ataataagg aataaggtta 180
attggttttt ctaatgcaga ctatagtggg gatgtagagg acagcaaaag caccactaga 240
tatgtcttca aattacttgg atcaacaata tgettgagtt ctaagaagca agaagatgtt 300
agacttcaa ctgttgagtt agagtacatg gctattgtct cagcagcttg tcaatcagcc 360
ttgttggagt cctgttga gaattgaata ttcagcttga ttcagttgtt caacttaata 420
tggacaacaa gtctgtata tgtc 444

<210> 17173
<211> 411
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17173

ttctgtatc atataaagtg gatccgagga actctcaagg acttgggtcaa gatgtctata 60
actctctat tctctctat actctttagt tctctctat tctctctat tctctctat 120
ctctctctat tctctctat tctctctat tctctctat tctctctat tctctctat 180
atgtjaagag ctgcttgatt atcacaatc aactttattt gctgaacac acanaatttt 240
aattattgaa gttgtttaat ccacaacaat tcacaagtaa caagagccat agctctatat 300
tctgtctttg cacttgatca agcaaaaaaa ctctgtttct tctcttttca agagacaata 360
ttctctcaa aggatacac ccataccagt gttggtctgc tgtctatggg a 411

<210> 17174

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17174

ntgaaatggg ctcacatgta ggggtgagtt gcgagataaa tctctcgata taattcaacc 60
tgcccaagaa acctcgaacc tctctctctg tctgtggttc cggcatttca ataattggct 120
tcattttctc gggatctatc gctatctctt tctgacttac gataaatccc agcaacttcc 180
ccgaatttcc ccgaaggta cacttggttg ggtttagctt cagttggtat ttccgcaacc 240
ttctgaacag cttacgcaga ttgaacaggt gttcgtcttc agtctgagat ttggcaatca 300
tctcatctac gttagactct atttctctat gcatcatgtc atggaacaac gccaccatgg 360
cacgttgata ggttgcccca gcatttttca gcccgatgc catcacttta taccagaacg 420
tccccatag ggtgaacgaaa gtggtctctt ctacatctt 459

<210> 17175

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17175

ttcttgatgg attacttgat gcttgggtca acctagtaac tcagcttgac atgaatcaga 60

aatatgcata tgcacctggt gcaagagtct gtggctctgtg ttattctgta gatcaccata 120
 gagatttcat ccttcttttgc agcaatatgg agtcaatgag caacctgaag cttatgctgc 180
 aaacatttat aatagacctc ctcaacagca aaaccaacaa tggcaaaata attatgagct 240
 ctcaacaaat aatataatc caattcttca agctatctca attctgaat caacatctca
 ctcaacaaat caatagcttg tctctctctt ctgaattctt gttggctcaa gcaatctca
 tgttctctct caatatagag agtagtcaca acanagacaa caagcaactg 410

<210> 17176
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 17176
 tctctgtgac atgaggccat taagtgcctc tgcacaaatg ttataaagaa gaggtgatag 60
 agggctctct tgccttagtc ctttctgagg taggaactca gctgagggac taccattcac 120
 caaaaatgaa acagatgctg attttagaca cccctcaatc cattgaattc atttgctgca 180
 aaagcccatc ctaccatcca tataagttag aaactcccaa gacacaaaat catatgcctt 240
 ttcataatca acctgaaga caatgcaagg cttttggcat cttttggcct cttcaactac 300
 ctcaattgta gtcaccaagc tgtgtagcat atgtcttctt totataaatg ctgattgctt 360
 ctcatgaata ataaaaggca tgaccttctt caatctat 398

<210> 17177
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17177

agcttcttat cctaggtcca tcttggctgt gaagcttctt cttccaagga ttattcctta 60
 gtgdaaggcg cactctctct cctctctctc ttgtctctcc gctgcattct catggtgcaa 120
 aatcaccatt aaaggacctc atgaagctc aaagatccag cctccataga agccccaaaa 180
 gcaagcttcc taaggctgtc ctcttcagtt ttgaacttga cgtatctgtc gctatcttag 240
 acttcgatct ctgggtgcat catgtcttgg aacaaaagca ccatagccca ttgataggtt 300

gcggcgagctg tcttgagccc aaaggacatc accttatagc agaacccttc ccacaggggtg 360
 aagacacatg gctctttcca tctctctggg tgcctcttt atctg 405

<210> 17178
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17178

ttttaaccca tgggaagctcc taatatctcc cacactntnn tgggtgggtct cattcttgga 60
 ttgtcttgat tntctcaggg tccacttgga cccattttct acaactaca aaacctaga 120
 aaactatatt atctacacaa aaggtacact tctctatatt tgcctagagg gtgtttttcc 180
 taaggactga aagaacttgc ctgagatgct ctaagtgate atctagggtc ctactgtaca 240
 taaaatata atcaaaaata acaactacaa tctacctag gaaatccctt aagacatgat 300
 gctaagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360
 catacaaac aaacttggtc ttgaaagcgg ttntccactc atcacccttt ttcactctga 420
 ttgtgtgata accactttta agaatcaatt ttgaaaagat attggcaaca tgcaactcat 480
 ca 482

<210> 17179
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17179

agctnttatt tcaataaata agtttaaata agttggccca taatcaatat aaagtaatgg 60
 aaaaaaaca taatcaaaaca tctatttgc tttatcaagt ctatttcaag tctagtatta 120
 aaattcaata tttttttta tataatgtta cctgttaata atttttatat gcatttatta 180
 tcaaaattaa aattcattnt aaatgtattg aaatagagta attntaatta aacatataca 240
 attntaatt attttaaaac aatattttta atgattntaa agatattaat tntcattatg 300
 taaataatatt aaagattaat ctcatcgtat aataaataaa acactntcat ttagtataat 360
 taaaattata tattattatc attatttta tcaaccattaa aattataaaa caatt 415

<210> 17180
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17181

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tacttccaa tttattttc ctatgaatcda attctttaa gttactatg tttatgaatc
g tcttcttct tctctatattg ccttttagttg aatacacctt tgggtgggtc tctatttggc 120
ctttaaacct ctcatgcaac ttctttacaa actctgacct agattccctt tcttgatgta 180
taaaacaaagt gtccagtggg aggggaataa ggtctaaaga tgttagggaa ttgaacccat 240
agacaacctc aaaaggggat tgcctgggtg ttctatgagc tcccctgttg tgggcaaatt 300
ctacatgagg aagatactca tccaagact tatggttgoc ttttagaaga gaccttgana 360
gggtagataa agacctatct actacctcta ttgcccac c agtttgtgga tgacaagtag 420
t
t 421

```

<210> 17181
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17181

```

agctttttca gtttcataaa gcttttggac taattaaatt aatactttca aaattaaaga 60
taaatttttc atatatcctc atttttatat ttttattatt ttaaaaaatga ccataatatt 120
tttatgtaaa tttaaactagt ttcttaggtt ttttaaccata atatatgtat ttttcaaaac 180
ttccatttca aagaaaataa tatttattat ttttaagttca aaactcaaag aggaaaaaat 240
gcatgcaaac aaattcaaat aataagtatt ggctaaaata tttttattat gaaattaaat 300
tttttaagga taaataattt catcttttgt aatatttgat attttgattt ttatttgatc 360
cttanaagta acattgtaac aataaaaataa tatttttcan agtttatgaa aaaataatat 420
a
a 421

```

<210> 17182
 <211> 387
 <212> DNA

<213> Glycine max
 <400> 17182

agcttttata ggtgaaatca ggtgcagcca ttcccttat agtccttca cgagggtggag 60
 gttggcat gtttcagaa tgttcaaaa cagaatgctc agaattcagaa tgcacaaaat 120
 tataatgctc aagattagga tgttcaaaa caccaataac agaattcaca 180
 taaatgctc ttcagaaatca ttcagaaatca ttcagaaatca ttcagaaatca 240
 tgaagacaga tctgtacag gatgtcagga catcgcgctt cagaacatgc agattgtata 300
 tgaagtatg aacagattat acaagtaaat aacacaagag aattgttaacc cagttcgggtg 360
 caagtcacc tacatctggg ggctacc 387

<210> 17183
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17183

ntccacttc cacacaaaaa tgtaattcta attctatcac ttgtttntac tgtggaagaa 60
 gaggacatgg catatcaact tgctacttca agaaaaatta tagtaacatt aaaatgatat 120
 ggtcccaaaa aggatcctca gtttatacta acatgcaagg acccaataaa atttgggtac 180
 ctaagtcaaa aacttgatta tgcaggtatc ttgagaaaag aagtgggtaca tagatagcgg 240
 atgtcaaaaa tatatgactg gagatgcac annatttaca cacatatctc caaagaaaag 300
 cgggcattga acatatgggtg acaacaacaa aggtagaatt cttggagtggt gtaaaatagg 360
 tacannatct tcanactcca ttgaanatgt tctacnttgt gaaggcetta agcacagcct 420
 gcttagcggt agtcaactat gtgacanagg ctatctagta tcat 464

<210> 17184
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17184

agcttggtca ttttatattc tgatdagggt gttccatag ttctcaagac tgcactaata 60

cattttgctgc ccaagtttca tgggtcttgca ggtgaagatc ctcataagca tottaaggag 120
 ttccatateg ttgtttccac catgaagccc tetgatgtcc tagaagatca tacctttcta 180
 aaggttttcc ctcattctct ggagggagtg gcaaaagatt ggcataacta ccttgctccc 240
 agatgaattt tgaactggga tgaacthaag aggggtgtct tggagaaatt ctttctgaa 300
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 360
 ttgtatgagt actgtagag actcaagaaa ttgtgtgcaa cctgtctca ccaaaa 420

<210> 17135
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17135

gcttcatgat gatgaatcaa gttgattcaa gaagttctga tattgtcttg ttgttgacaa 60
 aaaaacccaaa gaatgatttc gagattaaat caagatcaaa ttcaagaatc aagagaagtt 120
 tgatttcaag attcaagaaa agatgaattc aagttccaag agaagaaatc aagaagactt 180
 cacaatggga agtattgaaa agatttttta aaaaacaaaac atagcacaat tttgtttttc 240
 aaaagagttt tcacaaaatt ttctatgta ccagagtttt tactctctag taatcgatta 300
 ccagtttctt gtaatcgatt actagtggca aagtttgatt tcaaaagctt ttaactgaat 360
 atacaacgtt ccaattgatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcaat 420
 tactagtga cctgaacgtt ggaattcaaa ttcaattgtg aagagtcaca tcctttc 477

<210> 17186
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17186

nttanattga atntacaatg ttccaattta ttccaattg ttgttatcga ttacaagata 60
 ttgctaateg attaccagtg catctgaacg ttggaattca aattcaattg tgaagagtc 120
 cactctttca caaatagctt tgtgtaatcg attacaagga ttggttaatc gattaccagt 180
 gacaagtttt gaacaaaaat caaaagatgt aactctttca atgattttca ggtttttcta 240

aaggttataa ctcttccaat ggttttcttg accatacttg aagagtctat aaaagcaata 300
 ccttgaatta cattaataag aagaacttac aatacttaca acctttacaa acaactcttc 360
 cacatattct ttacaaacct ttgaattctt tcttctctct cctttgcaaa aagctctcta 420
 aactctcttg gttttcaca cctt taaaat aaaagtgctc tttctctt tttctctt 480

<210> 17187
 <211> 518
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17187

tgctctcggt gaagaanaca atagaataag ccccttcgat tctttcacag ggcctatcta 60
 ttogaagaat gaagggtctg tgtttggagg tggcgatgag gtggaggaca acctcggtgt 120
 cagaggtggt gttgaagatg gacgcgttgt cctcgaggtt ggttcggagg gtcttatagt 180
 tgaagaggtt gccgtttgtg gccacgcga cggagccgaa ggggtaaccg gcgacaaagg 240
 gctggacgtt attgagcatg gattggccgg cgttgagta ggggacgttg ccgatggaga 300
 ggctgcggga gagctggtct agttttgatt ggttgaagac ttctgagaag aggcacaacc 360
 cggtgatgga ttggatga 378

<210> 17188
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17188

ttcttttctg gatgatctta gaggaagaac ataggagtaa ctgagcctc caccctggtg 60
 ctaccaagat gttacaggat ctttaagaca tgttttggtg gccaaacatg aagagaaagg 120
 ttagttagtt tctgcattga tctttagct atcagaaggc taagatagaa catcagagac 180
 cctcaggtta gctgcaacc tttagatag cttagtggaa gttggacgat atctccatgg 240
 atttcattgt agggataact angaccccc aaggtgtaga ttctattctg ttcttcttg 300
 aaagattaat caaatctact cactttatcc ccatcaatat caag 344

<210> 17189

<311> 458
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 17139

tttcttattt ttttcttttt ttttcttttt ttttcttttt ttttcttttt
 attctttgaa tttttttttt attttttttt tttttttttt attttttttt 120
 aaatgtgaca acacaagtgc taccaattta acaaaaaaac cagtcgaagca ttctaggact 180
 aaacacatag aaataaggca tcatttttct agagatcatg ttttaaaagg tggctgtctgc 240
 attgagttca ttgatagtga gcatcaacta gaagaaattt tcaactaaac ttttctaga 300
 gatagttttt ttattagaaa tgaactangc atgttagatg catctagcat aaaatgacat 360
 tctgtttgca tagtgtgtga tgcacattgc tactcatatc atttgttttg tttagcttgt 420
 gtctcagttt attgattcat atgcataatc attagtag 458

<310> 17190
 <311> 387
 <312> DNA
 <313> Glycine max

<400> 17190

tttcttatta ttgtacgaaa tggacaaaaca tgaacctgtt ttttgaagaa gtgggtctgc 60
 ctcaagaacc tcattttttt cattatagga cgtatagcaa tgggtggaaac taatgttacg 120
 tagaacggaa agcgatctcc catgttttgc cctaataaag ggttgcacaa aggtgatttg 180
 ctattacott acctctttgt tttaggtatg aacaaaactt cccacattat cttgaaagca 240
 gtggaagott ggaaaccttt ttgtatggga agaaagggcc ccttcatttc gcaattcatg 300
 ttgtgggatg acttattatt gtgtggtcag gcttctacta agcatatgaa atgtactttg 360
 gacattatgc atttgttttg cgagatg 387

<310> 17191
 <311> 443
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 17191

acactataat actcagcttg aactattggt gaggtagact agganaagag aggttggttg 60
 ttttaattota ttaaatatcc tcaatattag aaaaraaate aataaaaataa gaatttaaca 120
 tgttcttaat ttgatgaccc ttctctatcc attgccotta agtattttctt aacataagaa 180
 ttttattctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 240
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 300
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 360
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 420
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 443

<210> 17192
 <211> 333
 <212> DNA
 <213> Glycine max

ctgcagcttt tatttattag atgaagatga atccgtggcc acctcatgga ctctctaaag 60
 gacaatagca tcaattcttg cactgaattg ttaggagttg gaagccatct tctcaatcaa 120
 attcttagcc tcaagcagggg tcatatcacc aagagctcca ccaactagcag cattaatcat 180
 actctctccc atgttgctaa gtccctcata gaaatattga ggaaggagtt gctcagaaat 240
 ctggcgggtga gggcagcttg cacacaattt cttgaatctt tcccagtact catacaaget 300
 ctctccacta agttgcctaa tgcctgaaat gtctttttctg atggcagtggt tcttagatgc 360
 agggaagaat ttctccaaga acactctt 388

<210> 17193
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17193

tgcagaatgc atggtttggc acncaatcc gtgtntctgt tgggtccaa gtggnatgaa 60
 autctctctg ttgcgaatg cacttcaaat gacctttcc cgaataatct tctctctctt 120
 gagcttctg atcatccga tctctctcag cgttttgggg tcaacaactt tcttgccttt 180
 ttcaatatc tcttctctc cctctctata agcttgaatg gtttacttc tctgactcct 240

tggtaataaa gccaaattgg aaaatatott gggactsaact atetcaagtt tctcagtaat 300
 ttctttgaat gctggaacaa ggccacgctt tatgaagcac cctttctataa gccgcacgtt 360
 atttaactcg gggagaactat gagcatcttt taaactccaga tcttagcaaa atgggtgagtc 420

<210> 17194
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17194

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 tgttctccac attcttgaga aatataagga cccaagtact ttctgtatac cttgcattat 120
 ttgggaacaac aaacttgaga gtgccatgct agatctagga gcacacagtta gtgtcatgcc 180
 tctgtccatt ttcaattctt tatcttttgg atctttgcaa tctacagatg tggtgattca 240
 tttagcaaat agaagtgttg cttaccccggt angtttcata gaggggtgtgt tggttcgggt 300
 tggtaaaactt atttttctctg ttaattttta tgttcttgat at 342

<210> 17195
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17195

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 gaetgttttt cteccatggt tcagtttgtt gtaacttgta ttttcttcac agatggggca 120
 tgcacgatga ccttaacac tgaacggct gagatccca tatgctggga agtcattaat 180
 ggtacaaaaa agcattgcac gcatttcata cgtctctctg cgaacggcat canatactac 240
 aacccctctg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
 gtcatttctt ggcctatctt ggcccgatat cactataaac aacatcatgt attttcgctt 360
 catg 364

<210> 17196
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17196

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 ataaataaaa acccatagta aaggtaacga cgcaatgagg agaaaaatgc ttgtgcagaa 180
 aaaaacagac agctaatacca acaattatct aataataaat taagttatca aatacactaa 240
 taatgaatta atgggcaaat tcatatatct ctttttcttg tatctcaact ttatttatct 300
 attgcacaat catatgtatt actaaatccc ttgtttacaa ttactggta ttagttaatt 360
 nttaataca ataaacatct ttctgatctt ttaatatctt tttaaaaatt attctactta 420
 tataatntct ataataatta aatcttatat a 451

<210> 17197
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17197

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 gccgttcggc ctctgcaacg cgcctctcac gttccaggcg gccatgaacg atacctcaa 180
 gcccttcttg agaaaatacg tggccatttt ctctgatgat attttgggtg ttagctccga 240
 ttgtgacaag cacttcacac accttgaatc cgttctagat acctctct 288

<210> 17198
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17198

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gtctacaagt acatgccttg nggtgctctt agtcaatatt tgttaaattg gaaagctgaa 120
 gggttacaac ctctggattg gagtgggaaga caaggetaag aattgccttg gatgtracta 180
 aggtgtcaa atattctatt gcatgagcaa ataaaatttt atccatagca atataaaatc 240
 ctacacatt tctgtggag aagatataca tgcacaaga tcaaaccttg gattgttctt
 tctgtgtt tctgtgtt tctgtgtt tctgtgtt tctgtgtt tctgtgtt
 tggcaacta ataatgtat gaggacaca tggcaacaaa ggtggatgta tttagttca 420
 atgcaatcct tatgtatg 440

<210> 17199
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17199

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 ccttagtggg tgggtgctcc cctctctctt tctcttttgc cttctgtctg atctccatgg 120
 tgaaaaatca ccattgaagg acctcattgg agctcataga tccagctcc atagaatctt 180
 cacaagcaag cttccatcag ctgtcttact ggttttagct caccctctaa atntatccga 240
 tgcatacatg tggatgggct aataccacca atgtccacca nggtccaacc tatagccttc 300
 tttgtcttct tgagaactga taacaacttc tctcttgcct catcaactag ggaggcagat 360
 ataaltactg ggaaaactttt gttatcctcc aagcaagcat 400

<210> 17200
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17200

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 ggtaaaacta tgaacttggg ttgttaacc gttggatttt catgaaattt ggatagtgtg 120
 ctcaaaatc aattgggac accgttggga ttgtggagat aataattctg gaggagaaaa 180
 aacgaatctc atgaaganaa tacaagtggg ggtttcaatc tcttctcctt ctctctgacg 240

tttgggaatt ctattggagc agtaggagga ataactgaag gaattctcang gaaccgctag 300
 agatgctgct atccctggct gaagacacgt gagtccgctc agaggtaagg gatgagttat 360
 tcacaattgg gaattagtga gaacatgtgt agggatcctt agagatatca attggaatga 420
 480

<210> 17201
 <211> 384
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 17201

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 ttgagaact cgaatgatt gggaggcggc ttccactttt ttcttggtgg ctggcaagca 120
 aacggggtat gctcattcga ttccggagta ccattctatg atctccatcc ttggcaaaat 180
 gaggaagttt gatactgctt ggaacttaat tgaggaaatg agaagaggta taactgggtc 240
 atctcttgtc actccccaca cactgttgat tatgatcagg agatactgtg ctgtacatga 300
 tgtngcaagg gctatcaata ctatctatgc ttataaacag tataactctc aagtgggcta 360
 gatgaattca taaccttctt tc 382

<210> 17202
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 17202

ttagctttta tactttatac aagaatgaag ctctgatacc acttggttaga caagtggcct 60
 cagatattcat aagaaggggg gttgaattaa gatattccaa actacttccc caattataaa 120
 tcctatctac tttttattca agttataaat gcccttaata atgaacttct taaatattga 180
 ttacataaaa acactctgaa tatgactata tagcaataat atacaaagga gattaagaga 240
 agagaaagtg ccaactcaga ttataactgg ttccggccaca cctttgtgac taactccatt 300
 ccccatgcaa cccgcttgag agttccacta tcttgtaaat gccctctaca aactctaaac 360
 acac 364

<40' > 17.03

<110>	17204
<111>	406
<112>	DNA
<113>	Glycine max

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agttttagat	tttcccttac	aagttctact	actaaaattg	tgagacgagg	ccaactaaac	120
cccgaaaagt	aataaaatga	taaaaagtta	tttttttggg	tagataaaaa	tgttctttga	180
aaatccaagt	tgttatttat	ttgagttcaa	aattctaaat	gttgtgtgac	ttaaataaaa	240
ataatagcat	atcttgaggg	actaaatgac	aataagtatt	aagtttagga	aataaaactga	300
tacagtaagg	aatttcatta	tntactttta	gggattaaat	taacactatc	tcacactttt	360
aggaagaagt	ttgatttatt	atttatctta	natattttaa	ttaata		406

02234 measure at all 11 locations
04502 17205

aacttagctt acactggggc ggacagaaat tggtagctgg ttatagtata tgttgagata 60
actggaaaac acaataatac ctttcttata attaacaggt gtgaagctca aaggcagacc 120
taagtcacca tcaapageta caacatcaag tggacaatct acatcgggtc ttgcgcgaagc 180
tctctctctt atctctctct caacctctct cctctctctt atctctctct 240
ctctctctct gctctctctc ctctctctct tctctctctc cctctctctc 300
tgcacacaca aggcaccaatg ttaccaatgt catcttcatt tctatgtatc taattntgtg 360
ttcttgtaac ttgtaatgga tattgaagaa gagggatatt tatatatagg atggngattg 420
ctctaatctc tgtacctatg tgcacc 446

<210> 17206
<211> 310
<212> DNA
<213> Glycine max
<400> 17206

agcttctcga catatgatgc gcccgaaatc gacatccgtg tgaaaagtta tgaccattta 60
aatttcgcga gagttttcga tgtttaatct cgagcgtatc gatataattat aagcctgagt 120
cgtacatccg tgtgaaatgt tatgaccatt tgaatttctc gagagcttct gttgttcaat 180
ttcgagcctc tcgacatatt atgcgccga atcggacatc cgtgtgaaaa gttatggcca 240
tttgaatttc tcgagagctt ccgatgttta atttcgagcg tatcgatata ttataagcct 300
gaatcggaca 310

<210> 17207
<211> 444
<212> DNA
<213> Glycine max
<400> 17207

ctcacgctta tgatatattg atacgctcga agttgattta cacaactctc cgacagatcc 60
aaatggctat aactgttccac acggatgagc gatacgagcg cataatctcg cgaggggctt 120
gacattgaac aacggaagct cttgagaaat tcaaatgggc ataccttttc acaccgatat 180
cctattctag caaatcacat atcgagagcg tcagaattga acaacgggaag gtcttgagaa 240
atacaaatga tcttaacatt taactcgaat gtccaattta ggcccatcac atatactgac 300

actoggaatt gaacaacgga agctctcgag acatctagat ggtcataact tctcacattg 360
 atgtgcgatt cacyottata atatattgat atgctcgaaa ttaaacateg gaagctctcg 420
 agatattcaa atggtcataa cttt 444

<211> 140
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17209

tttgcaagct tttatccatt tcaacgaca gtaacttttt tctcggatat ctgattgagt 60
 cccgtaatat aacgagacgc tcgaaattga atattgaagc tctgaactag ttcaaacgac 120
 aataactttt tactcggatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg 180
 aatgttgaa cctctgagtaa attcaaacga caataacttt tttctcagat gcttgattga 240
 gtcccgtaat atatcgagac gctcgaaatt gaatgttgaa gctctgatcc aattcgaacg 300
 acaatacctt tntactcgga tgtctgattg aagtcocgta tatatcgag 349

<210> 17209
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17209

tcaacattca atttcgagcg tctcgatnat gacgggactt tatcagacat ccgagtaaaa 60
 agttattgtc gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata 120
 ttgoggggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcggagc 180
 ttcaacattc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 240
 aaagttattg tcttttgaat tggctcagag ctccaacatt caatttcgag ggtctcgata 300
 tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360
 ggttcaacat tcaatttcga ggtctcgat atattacggg actcaatcag acatccgaut 420
 aaaacgtta 449

<210> 17210
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17210

gagctgctggc gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc
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 gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc 180
 gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc 240
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 gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc 360
 gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc gctgctgctggc 420

<210> 17211
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17211

agcttcttca caatttttta attagaaaca caatcaatat attattagtt aagaaaaatc 60
 atacatttta gcaaataaca acacatgtca atgagtttat taagaaggat ctcaatttga 120
 ttctaacata atatatcttt aaagaaaaac aaaatttttt aagtttgatt aaattttgaa 180
 cttagaatta attttataat cgatctaaaa gattaaaatt ataaaaatct tacaaaattt 240
 caaaaaagaa aaataaaaaa tctttattat taatatgggt aaaaaattat atattaaata 300
 aaanattgaa ttacaccttg ttaataaatc ttatatgaag ttcaatcaat aataaagtaa 360
 tgacaacaaa tgaattatta gcttttaagg gattttatct gatcacat 408

<210> 17212
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17212

agcttgtctt tgagatagca tgaagacat ggcgaaagtg tgaactatag atgtgggaat 60
 aggggtgtagt aagcaaatgc tcaactcccc ctctaaaatt taattggatt gggctttatc 120
 caattcaatt aaatttattt cccaacacac atatcaaata ttcaattagt gcattgtgaaa 180
 ttaaaatgtt aacatttata caaaaactag tttggttggc ctaaaataga aggtcttata 240
 ttttattt ttttattt ttttattt ttttattt ttttattt ttttattt 300
 aatagcat cctagcttaa tatgtatgaa gataatggg c 360

<J10> 17213
 <J11> 451
 <J12> DNA
 <J13> Glycine max

<400> 17213
 tccaagagtt cggcaagctt ctactattac ttgattagg ttacttttgt ttgttgtttc 60
 attagtataa taaaagcttc tatattttgc atctaagatc acacaagatt cctgtcggta 120
 gtctgaatga gaactttata gaacaccctt tttgaatttt aagtatgaat ttttgtgaat 180
 togagtaagc aagtaatgat attactgtgt aaaaaaagat aatgatatat attcctctgg 240
 acttaaatat atataaaaaa actaactcaa tttaatgttg ataattctat gaaaaaagtt 300
 aattcatttt ttaaagtacc atttatatta attgcatagg acaaaaaaaaa taaggttatt 360
 gaaaataaaa ctctaattaa ataaagagta ttttggggat attataatta aataggagag 420
 aattaattaa aatttactta tattttaatt c 451

<210> 17214
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 17214
 gactcaagct tgtacttgta ctgctattg gcagattaca tgcattactt ctccctttct 60
 ctctcatcaa cgtgagtggt cattttattc tttttctata attacggggt taataagatg 120
 aaacaatagg gtagtgaaac gaatagggtg tctcttcaat gattgaagca tccaattttt 180
 atttttattt ttaagtaga acatattatc atattttgaa agcatcagct atgactcggc 240
 taaaggctac cgcggtcttt gagccagatg ggcgcccaaa atgcttgcgc atgaactcac 300

oggetaacat gagctttccg agatcaacgt tggctttcac cccaagtcca ttcagcatgt 360
 acacaacatc ttgggtagct acatttccctg aagctccctt ggcataagga cagccacata 420
 gacagcaac tgaagaatca actgcaactga tcccacac 458

<210> 17215
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 17215
 taactaagct ggacttttgt aggcacaaatg tctcgtatgt catgactatt atttgttgca 60
 tcaagaagtg actatcatga gactttaago ttaccaactt aagatccctc aactgcacaa 120
 ggcctttaat atttgaagag tatcctttgtg gaactttgac atgacacata cactaacaaa 180
 aactcatctt ctcctttctg ggcacaaagtat gacaagctga aggcacagtat attttttacc 240
 atcagacctt ggatataact gcaactcgtat atccatgcca actagatctt gacgagtatt 300
 caaacacatct ttcactcttg cttgaatggt aaggagcgtc ccaataacat tatcacatac 360
 atttttctct acatgcataa catcaataca atgtctaaca tctagatcag accagtaggg 420
 aagatcaaac aaaattgacc ttttc 445

<210> 17216
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 17216
 tgttagacct acattatcta tgatttataa gcaaaaacatt tctcaacaaa tgataataat 60
 aacttgcact atattatctt tttaattata gctcaaatc aaatgggtgt gattttgtat 120
 ttgaagatac tcttcacaaa atatattaaa ttgcataat aaataatggt gttgacaaga 180
 actagtaata caccocatga cccaccctt tatctactta ttccatattg acacatatgc 240
 ataattaata ttaagttata aacttataaa aaacaaattt ttatgttggg aaaaaaatgt 300
 caatattaac aattatctat cactaaaaaa taattaaatt cgactaagaa aatttaataa 360
 ttcaaaataa atcaataaaa gacttataat ataaaaatatt ataaaaagta taacatatct 420
 aattatataa taaataaatt tattatctt 449

<210> 17217
 <211> 440
 <212> DNA
 <213> Glycine max

<214> protein

<215> amino acid sequence of the protein deduced from the cDNA sequence

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MALMADAAT AGATCAATG CATTCACTG ATGATCAAAAT ATATCTTGA CCAATTTAA 60
CTGGGCAAGA ATAGTATTAA ATTCAATTAAT ATGATCAGTT ACAGAGATAA CTTCTCTCAT 120
CTTGAGGTTG AACAACCTGG CCACTCAAGTA TACTTTGTTG GGTGTCTGAG GCTTCTCTGTA 180
CATATCTGAT AAGGCTTTCA TTAAGCTGTG AGTAGTCTTC TCGTTTACGA TGTGGAACGC 240
GACGTTCTTA GCAATGTCA ATCTGATCA GCAAGAGCT TGTGATCCA GCAAGTTCCA 300
TCTCTCTTGC TCAATGTGT CTGGCTTAAC CCTGATAAG GGTGATAAG ACTTCTTTTG 360
ATATAGATAA TCTCTATCT 420

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<210> 17218
 <211> 447
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <215> 17218

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TGAGAATGGA GGATTCTCTT GAGGGTCTCT TCTTANGCAT TTATGGAACA CAGTTCCAAA 60
CTCAAAAATG GAGGACACAT GAATGACAAC GCAATTCATT CATGGGGCTC CGAAAAAGGG 120
TAAGAATGGA GGATTGCTT GAGGGTCTCT TCTTAGGCAA TCATGGAACA CAACCTCATA 180
CTCGAAAGTG GAGGACCCAC GAACAGGCTT AAGCAATAAC ATTCAATGTG CTCGAAAAA 240
GGATGAGAAT GGAGGATTGC GTTGAGGGTC CTATCTTATG CAATCATGGA ACACAGCTCC 300
AAACTTGAAA ATGGAGGTCA CATGAATGAC AACGCAATTC ATTCACTGNG CTCGAAAAA 360
GGGTGAGAAT GGAGGATTGC CTTGAGGGTC CTCTCTTANG CAATCATGGA ACACAGCTCC 420
AAACTCGAAA GTGGAGGACA CATGAAC 447

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<210> 17219
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17219

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tgcatttctt aactntcttc aagaatttca gctcttttcc tacttagact ttttagcttt 60
tgaagccaag ttatcccttc tggcttagac tgcacacatt tggcttagtc ggcgatgag 120
tgcacacatt tgcacacatt tgcacacatt tgcacacatt tgcacacatt tgcacacatt 180
tgaaggaaga ttcccaattat atgggacacg agatcccaag gaaggcccta gggttctcat 240
gagcattagg gtagatttcg agcccatggg caagcatga gcccgtttat ctttgtaaat 300
attagaatat gtttttcatt cgtttgggac ttgtatttcg gccattctag tagtataagg 360
ttttagcctt gtatttcgag gcattntgat tagtctttat agtagggaat tttttgtatt 420
ttcatgtatt ttgtcatg 438

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<210> 17220
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 17220

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agcttgtatg gtttttgtct cagcattgtc acatgctcat gcaataattg ttagtcgtgg 60
ctatacgaga catcttgcca aacaaagtcg ggttagccat aactcgcccg tgcttttctt 120
tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagctg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttccccc tgctttcttt gacattatga 240
ttcaactctat ttgtcatctg gtcagagaaa tcaaatgttg tggctctggt catacacata 300
attcaaatte attaatatgt aatgcataa ttggatgaaa gctttgaaca tggaacttat 360
ggcagttcat tctatattgt tgcaagtact cctacttct 399

```

<210> 17221
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 17221

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agcttttctt aaacaggtg aagagcataa tgcattctat aattgatgaa agacagaccg 60
ctttctatgc ttgacgacag ctgtacaca ggttaattat cgttaatgaa acagtggacg 120

```


aagccataag gggtcaaaag acatgcttgg tgtccaaagt agattttgaa agggcttaag 180
 actctgtttt ggggaacttt ttaactatata tgcctggaag gttagggttc tacaataaat 240
 ggaattcagtg gattgacggg tgcctcaaat ctgcctcggt ctgggtgttg gtaaatggaa 300
 gttccacctc agaatcactt cctcctatga gctttagata gtttcaacca ttaggcttgc 360

17222 17223 17224 17225 17226 17227 17228 17229 17230

<210> 17222
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17222

ttcttttttg tatcatggta gccatcagag aagacattct atttccactc ttatctgtct 60
 gataaattaa tcttttcgca gaatgatata ccttaccact cccatgttga atcaaaaatag 120
 taaagccttt ttcttgaagt tgtcctatgc tcaccagaaa ttgcctgagt aaatccactc 180
 aattgcataa gaatgatacc ttttccaca acatccattc tgggtgttatt gccaaagtttt 240
 acagtttggc taaagctttc atccagttct gagaaccact ccttgtttcc aatcatatga 300
 ttgctgcaac cggagtcgaag gaaccacact tcttccattt tgtcttgcct cagggtcaaca 360
 taagacatta ataaaaaato ttcca 385

<210> 17223
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17223

ctcgggtggga catcttgact tgcctttcaa tctgacattt tccacagatt ctgccttctt 60
 ctattttcag atggggaatg cctctaacaa cactttgtc aatgattttc ttcattgcctc 120
 taaagtgcag atgtccaaat ccttgatgac atattctgac ttcattctct ttggaggata 180
 gatctgtgga ggagtagctg gttctttgag gtgtccatag gtaacagttg tcttttgatc 240
 tcttgccttt catcagaact tcaactctct catttgtcac caagcattct gaatttgtga 300
 agtttacatt gaatccttca tccacaaact gactgatgct gatcagtttt ggaagtcagtc 360

ccttcaccag cagtactttg ttcagactag gaagtcacac atgaactagc tntcccattc 420
 caatgatctt 440

<210> 17224
 <211> 441
 <212> DNA
 <213> Glycine max
 <214> 17224

agcttttatct caaattttctg gctaaattat cttttattcc actaagcaca gagaaaggat 60
 ttaaatgctt aattaatgta gttttaaaag gatgttgatc tctccattgc gtaggcaaga 120
 gcaagacaa cgttaccaaa caaaaaccgc tcttaatttt taaaacatat aataaaatgt 180
 tcccttatta taataatcaa attgaattca attagcataa aaataatagc ctttagtggg 240
 acaatccata gtaacctagg aaactcagta caaatacaca ttaaaaatat aaaagcccaa 300
 gcatataata tctttcaaat atttgttttc cacactcaaa ttgccatata acgggtgaat 360
 aagtgaattc aaaccaagat ctaaacaaaa agctatc 397

<210> 17225
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17225

agctttcttg aaacatatat gtttggtctt gttgctgaca gatacaacaa actaccaatt 60
 ataattctat aaacagaatc atttgctaaa tcaataccat cattttattga taacttttca 120
 ttcacaacaa ttggagtga ccaaggcttg cattgctcca tgcgaaactt cttcaatata 180
 tccaaagcat atttcttttg tgaaatgaag atcccacat tagactgaga aatctccatc 240
 cnaagaaaat acttcatttc acccaagtca gtcatttcaa attctttttc catgtccttc 300
 ttaaatgggt ttaaggaatc agattcattt cctataacca acaaatcctc aacatataag 360
 gaaacaatga gctgcatttc atttttncac tttttcagat ac 402

<210> 17226
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17226

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tcaagctntg tgtgtggaac attgtaatac catatctgca ggagattttc ttgtattttt 60
atcaaggtt caaattctag agagataag atatttaca aatttttagt tggttttt at
tcaaggtt caaattctag agagataag atatttaca aatttttagt tggttttt at 120
tcaaggtt caaattctag agagataag atatttaca aatttttagt tggttttt at 180
tcaaggtt caaattctag agagataag atatttaca aatttttagt tggttttt at 240
tagactccta atagcttttc agttgtcaag gcattgggata aaatcaggac cagcagtgc 300
attgcataag ttccacttgt atccagttgc ctgcttggag gattcttgag actccttttc 360
attcttagac tctgtgctt gatttgacca agaccagtt tctgtagtac tttcttctgt 420
tagctcagac tgagccctag aaggatatac c 480

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<210> 17227
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17227

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catgagagag tcaagatca aattgagaga naaaataaat gctatgctat acaagccaac 60
aaaggagaaa agaaggttgt ctccgaaccc agagattggg ttgggtgca catgagaaaa 120
gaaaggtttc gaaacaaagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcctgaaaag aatcaatgac aatgcttaca aagttgagct gcccggtgag tataatgtta 240
gttcaacctt caatgtcttt gacttatctc tttttgatgc agatggagaa tccgatttga 300
ggaagaaaca ttctcaagag ggagagaatg atgaggacat gaccaagagc aagggcaagy 360
atccacttgg aggacctatg acaagggtta gagcaaggaa agccaaggaa gctcttcaac 420
aagtgttgcc catattattt gaata 445

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<210> 17228
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 17228

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cgtgcgaagc ttctatagaa ggttcgttcc taattctctt acaattgcct cactctcaca 60

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tgagctgggtg aaaaagaatg tggcatttad ctgtggtgaa aaacaagagc aagcctttgc 120
 tttgctcaaa gaaaagotta ctaaggcaac tgttctaget ctctctgact tttctaaaaa 180
 ttttgagota gaatgtgatg cctctggagt gggagttgja gctgtattgt acaaggtggg 240
 ct
 ct
 aaggaattg tcatctatg tgatctaaa tcaattagt a 300

<210> 17229
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 17229
 tatgctgcac atattaacag tagactctct aactctagta gcttaatcaa ccacagcgga 60
 gcaattatga cctttccagc aacagataca aacctggatg gaggaatcac cctaccctca 120
 gatggtccag ccttcagcaa caacaacagc agcctgctcc ttctttccaa aatgctgctg 180
 gcccaagcag accatacatt cctccaccaa tccaacaaca gcaacaaccc cagaaacagc 240
 caacagttga ggcccttcca caaccttccc tgaagaact tgtgaggcaa atgactatgc 300
 agaacatgca gtttcagcaa gagactagag cctccattca gagcttaacc aatcagatgg 360
 gacaattagc tactcaattg aatcaacaac agtcccagaa ttctgactag ctggcctctc 420
 aagct 425

<210> 17230
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17230
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 agtggccaag gatgcatggg agatcctgaa aaccactcat gaaggaaact ccaaagtcaa 120
 gatgtccaga ttgcaactat ttgctacaaa attcgaaaat ctgaagatga aggaggaada 180
 gtgtattcat gaattccaca tgaacattct tgaatttgc aatgcttgc ctgccttggg 240

agaaaggatg acagacgaaa agctgggtgag aaagatcctc agatctttgc ctaagagatt 300
 tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt cycaacatga gagtagatga 360
 actcattggg tctcttcaaa cctttgagct aggaactctcg gataggactg agaagaagag 420
 caaagacatg 301 484

<310> 17231
 <311> 450
 <312> DNA
 <313> Glycine max

<400> 17231

gactcacgct ataatatattg aattacaacg tttagaaaact gctggtaatt tattaccatt 60
 tatgtgtaat cgattggcga gtgcagattc tgaattcaaa ttttaataga tgttgtaaat 120
 cagttttggc cactggtaat cgattacatc ctctggtaat cgattacgag agagtaaatt 180
 tgttgaaaaa gactttttta cttaaatttc ttggcctaaac tttttgctac ttcaattgga 240
 attcccttcc tatttaatat acccttttcta agactctaga gactgtcttg atcatccatc 300
 ttgaatatat ttaattttct tgtcttgaat agagctttga gacgcattgt aaactttggc 360
 atcatcaaaa cattcagctt gatcctttgt ctacagtttc gtgatagaat actatataaa 420
 gttagtggac aaaaactca 439

<310> 17232
 <311> 451
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 17232

taagctcttt caactgcaca aggtctctaa tatttgaaga ttatccttgt tgaaccttca 60
 cccgacgaaa ataactgaca aaacttatct tctccttttt ggacaaagta tggcaagcta 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180
 cagctagatc ttgacgggta ttcaaaccat ccttcgtctt gccttgaatg ataaggagcg 240
 ttccaatcac actgtcacat acattttctt cgacatgcct aacatcaata caatgtctaa 300
 cactagatc agaccagtaa gaaagatcaa agaaaatggc cctcttcttc catatgcaat 360
 tcttaagttt atccttcttc tgggtcttct caaatacagt attcagghgt tgaacctact 420

gatataacctg ctcactagtc aacgggtatgg g

451

<210> 17233

<211> 386

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 17233

agcttcttctt cttttcttga ccaaactcttc agttaatctgt ctttaagtraa agcagtccttc 60
ctattctgttt aaaatgcctg aagataaatt agtagggagaa caatttggatt tgtttaataa 120
actgattcttt gatcttgaaa atatcgatgt cactattgat gatgaggatc aagccttctt 180
attgttcttgc tctttcttta agagttactc tcatttcaaa gagactntat tgtttggaag 240
agactctgtt tctcttgatg aagtgcgaagt tgccttgaat tcaaaggaat tgaatganag 300
aaaggaaaag aagtcttcta taagtgttga agggctgaca gcaagagaca agccttcaaa 360
gaaagatagt anatttgata agaaga 386

<210> 17234

<211> 420

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 17234

tcaagaatta tggctctcctc aaactatttg tttccttatg gaaattctat aaacagacct 60
cccatcttta atggagtggtt ttaccactag tggaaaaacc gcctgcaaat ctccatagag 120
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
gcgggaagtg caaccataga aaaacctaga gcagatttga ctgaggaaga aagaagatta 240
gtacaatata atttaaaggt caaaaatatt attacatttg ccttaggaat agatgaatac 300
ctcaggggtt taaattgtaa aagtgttaag gatatgtggg atacactata agtaacacat 360
gaaggcacia cagatgttaa aagatctatg ataaacaact taactctatg atatgaactt 420

<210> 17235

<211> 421

<212> DNA

<213> Glycine max

<400> 17235

taaattactt ctgtcagaaa agcettacaa attggaggag gatgacatgg gaaatttaga 60
agagaatcag gaattctagaa taggactata taacttgaat tatcttctag acaatattca 120
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tgcagtgctg aatgacttgt cacttaatgc tttaaataaa gatgaagtgt ctagtatact 300
tgaatcagat ggatttctta ggggtctctc aaggcattgt ttgcacgtat atggcaacaa 360
agtaaatgag tgcctgctta gcttctcttg gaagttggat gagaagcgag tatgcataca 420
t 481

<210> 17236

<211> 397

<212> DNA

<213> Glycine max

<400> 17236

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atatattacg ggactcaatc agacatcoga gtaaaaagtt aatgtctgtt gaatttgctc 180
atagcttaaa cattcaattt cgagcgtctc gatataattac gggactcaat cagacatccg 240
agtaaaaagt tattgtctgt tgaattggct cataggttga acattcaatt ctagcgtctc 300
cgatatacta cgggactcaa tcagacatcc gagtaaaaag ttattgtctg ttgaattgct 360
catagcttaa cattcaattt cgagcgtctc gatatat 397

<210> 17137

<211> 425

<212> DNA

<213> Glycine max

<214> unsure at all n locations

<400> 17237

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atcagagcgc tcaaaaattta atcttgaacc tctatccaa tcaaacgac aataacttct 120

taactgggatg tatgattgag tcccgttaata tatcgagacg gtcgaaattg aatgttcaac 180
 ctatgagcca attcaaacga caataacatt taactcdaat gtctgat'ga gtcccataat 240
 atatcgagac gtccgaaatt gaatgttcaa cctctgagcc aattcaaacg acaataaactt 300
 attatcaga tctcgaattc aatcgatga tatatcaga cctcgaattc taaatctga 360
 tctcgaattc taaatctga taaatctga taaatctga taaatctga 420
 taaatctga taaatctga taaatctga taaatctga taaatctga 480

<210> 17238
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 17238

tgctaaagtt gagaagacca agaatttgat tcaacccaat tatatgcgat agggctcaaa 60
 aatgcattag gantacaaa ggaactgacc aaggcaagtg cgtgtggtcg aagttcagca 120
 cagagttttg gcacttcttt cctcactgca gaagcattct ctgttgacaa gtatccatat 180
 cgaagaaagg cagaatcttc atccacacat atcacagcat acaacgatct caatagaccc 240
 aagacattct acagaggaga taaataaaag caaagaaatc aataaatgga tctgcttcac 300
 attttgaccc taaaggaga gtgctaacaa cactctttta catgagaaat tattaagtag 360
 ctgaaaacta ctatagtcac cactaactaa tatatttaca taaaacaaaa ttgagtgtta 420
 ttaattcttt tcttgtaaa 439

<210> 17239
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17239

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 tgaagatgaa gaggtaaaag tgactcaaca ggttgagggtg tctctcacca ttggagata 120
 taatgacaag gtgctgtgtg atgtggtccc aatggaaagg acccatcttc ttttaggaag 180
 atcttgccag tatgatcca aggcagtgcg tcatggtctc acaacaaca tctcttcaa 240
 gcaagctgac aagaagatg tctcacaacc gttatctctt caagaggttt gtgaggatca 300

gataaaaatg agagaaaaga aaaagagtga gacacttgag aggaaaaaga gtgagacact 360
 tgagaaggaa aagtggaggaa agactaagag tgatacactt gagagggaaa agagagatna 420
 tcaaaagagt gaaaaa 486

<211> 412
 <212> DNA
 <213> Glycine max

<400> 17240

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 agctcacctc cttgagaagg ttccttaaga agattcctaa agaagctaga gcttagctac 120
 acataccttt ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
 caccctata atagctaagg tcacccccc atcaaaaatac atgaaaatac aaaaaaaaaa 240
 tccctactac aaagactact caaaatgctt cgaaaatacaa ggctaaaacc ctatactact 300
 agaatggcca aaatacaagg cccaaaggaa ggaaaaatct attctaatat ttacaaagat 360
 aagggggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaacctt 419

<210> 17241
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17241

agcttggaa taagcttctt ttctctaaaa cttgtcctcc ataaactgat ggacaaacag 60
 aggtagtga taggtctcta tcaccccttt taagggtctt ttgaaagga aaccataagt 120
 cttgggatga gtatcttctt catgtagaat ttgctacaa tagggggggt catagaacca 180
 ctaagcaatc ccttttgag gtgtctatg ggttcaatcc tctaaccacc ttagacctaa 240
 ttccctctcc acttaacact tcttttatc ataaagaagg ggaatctatg tcaaggtttg 300
 taaagaagta gcatgagagg gtaggaacc aaataaagaa ccagacaaag gtgtatgcaa 360
 ctaaggcaa tagaygaaga aatga 385

<210> 17242
 <211> 377

<212> DNA
 <213> Glycine max
 <225> unsure at all n locations
 <400> 17242
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 gaaatctgag tctctgaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat 15
 gaaatctgag tctctgaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat 25
 aagagaaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat 35
 gaaatctgag tctctgaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat 45
 tctctgaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat tctctgaaat 55
 aaacacaaag tctctgag 377

<212> 17243
 <213> 414
 <212> DNA
 <213> Glycine max
 <400> 17243
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 atggggcctt ctctctctct tctctctctt tctctctctt catctccatg gtgaaaaatc 120
 accatccaaag gacctcattg aagctccaaag atccagcctt catagaagcc ccacaagcaa 180
 gcttccatca caaatctcgc accagcatga ttggagtacc gaccttaagt gttaatttgt 240
 gattaggtat ccttgatgtt tctaatgagt ttagaaaatt aggtgtcagt aatccgaaag 300
 taggattgag tagttcatct tatttatcaa tgttatcagt gctacaatac tcttttctgt 360
 cattctgtat caatgataag acaataatct attttgtcaa caatatcttt tttt 414

<212> 17244
 <213> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17244
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 aagacttcac atcaattatg aaatgcatac tactaccaaa tatcaatatg tcatccacat 120

aaaaacataa aatgatgcat ccactatcat caaattgttt cacatacaca catttatcac 190
 tattattgat ttgaaaacaa tatgaaagaa caacttgatc aaacttttcg tgcatttgc 240
 ttggagggtg ttccaaaaca tataaagatt taacaagttt gcaaaaattc tttcttttac 300
 tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac 360
 tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac 420
 tttcttttac 480

<213> 17245
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 17245
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 taacatcatt tcttgcaactg aattgttggg agttggaagc catctttctc attagattcc 120
 tagctcagc aggagtcata tcaccaagag ctccaccact ggcagcatca atcatactcc 180
 tctccatggt gctaagtccc tcatagaaat attgcagaag gagttgctca gaaatcttgg 240
 ggtgaggaca gcttgccacac aattttctga atctttccca gtactcatac aagctctttc 300
 cactaagttg cctgatgcct gaaatgtctt tctgatggc agtggctcta gatgcagggc 360
 agaatttctc caagaacacc cttttaaggt catcccaact ggtaatggat ctgggagcaa 420
 ggtagtacaa 480

<210> 17246
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 17246
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 ccattgagagg ctggatcaaa tggagaatag agatcatact gaagaacaaa ggaagagaag 120
 agdaaatgat gggttctcta gacaaaaccg aattgatggt attaaaactc acattctctc 180
 atttaaaagg aagaatgac cggaggccta ctggagtggt gagatgaaaa tagagcatgt 240
 tttctcatgc caagctatg acgagaccca gaacgtgaag ctggcgcaca cggagtttcc 300

cgactatgct cttgtgtggc ggaacaagct acaaatagag agagcaagaa tgaagagcct 360
 tggttgatca tggg 374

<210> 17247
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 17247

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 tataacgaga tgcctgaagt taaatgttta agctctgagc caattcaaac gacaataact 120
 ttttactcgg atgtctgatt gagtctgttc atatctcgag acactcgaaa ttgaatgttg 180
 aagctctgag ccaattcaaa cgacaataac tttttactcg gatgtgtgat tgagtcctcg 240
 catatctcga gacgtcaaaa attgaatgtt gaagctctga gcccaattcaa acgacaataa 300
 ctttttactc ggatgtctga ttgagtcctg taatatctcg agacgtctga aattgaatgt 360
 tgaacctctg a 371

<210> 17248
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 17248

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 aagttattgt cgtttgaatt tgcctcagag ttcaacattc aattttgagc gctcagatat 120
 atgacgggac tcaatcagac atccgagtag aaagttattg tegtttgaat tagctcagag 180
 cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
 caaagttatt gtcgtttgaa ttgctcaga ggttcaaat tcaatttcga ggcgtctcgtt 300
 atatcagggg actcaatcag acatccgagt ataaagttat tgcgtttga attgtctcag 360
 accitcaaca ttcaattttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420
 taaaa 425

<210> 17249
 <211> 427

<212> DNA
 <213> Glycine max
 <225> unsure at all n locations
 <400> 17249
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 ttttctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 autgaagtaa ctigaatatg aatataaagg aataataaat aaaggagatt aaggggaagag 240
 aaaatgaaa cttagtcttta tactggctcg gccacacctt tgtgcttacc tccagtcccc 300
 aagcaacccg cttagagagtt acactaactn gttaaattcct tttacaagtt ctaaacacac 360
 aaggacaacc ctctctttgt gtttagagat cttttacaac aagagactca cagtctctta 420
 atccctt 427

<210> 17250
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 17250
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 agtgtgagac gttagtaaca ttcccagatg aatccccctc gaaaaacggt ccaccaccac 120
 gagaattgtg gtttttctgt atacgccggc aggccgacaa tgaaatctaa cgagaggtcc 180
 tcccagggtc gatggggcac cggtaagggg cataatagtc ctgcccgcgc ttgtgtctgg 240
 tacttagtga cctgacaatc catgcaattt gccacaaatt gcttgacatc ttctctgaga 300
 ccgggtccaag tgaagttctc tgaaattcga gctaattgtc ttgtgattcc ggcgtgaccc 360
 cctgttggag tctgttggtt ttctgaagt aatg 394

<210> 17251
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 17251
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aaaacctaata tataaaatgc atcaatagaa catacaaaagg atgattgata gatgctgcat 360
 taacaatgtg tgggtgtatat ctgagcatat gtacttggga attgataagg caatttgtga 420
 aggctaaat 480

<210> 480
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17254

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 atcgagatgc tbaaattga gactagaagg tctgagcaaa tttaaatgac aataacttta 120
 tacacagata tccggttgag tcccgtaaga tatcgagacg ctcaaaattt agatccgaag 180
 ctctgagaaa attgaattga caataacttt atacacggat gtcgggatga gtctgtaat 240
 atatcgagac gctgcaaatt gaaaacggaa gctcgtagga aattcaaacg acaataactc 300
 tttactcgga tgtgcgattg aatcggttaa tatatcgaga cgatctaat tgagactaga 360
 agctctgagc acatggagat gacaataact ttatacacgg atg 420

<210> 17255
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 17255

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 tattccacca ggactcaatt atcgaataat aattaaataa tatctgcaaa ataagtttaa 180
 aattataaaa ataattatta acaaaaaagca tctaaagtta atacaaataa aataattata 240
 attgaccaat gccagtgttc ttgtttttct tgttttagcaa gaaaaaatga taggatgggt 300
 tatttttcag gaagcatagt ccaacttacg ttaagccagt ccttgatata tcaaatccca 360
 atgttatgca agaacggta gactcgggtt tgtgaagctc cctttgtaca gcaacattca 420
 cc 480

<210> 17256
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17256

tattttcaat taattcaggt tctctctaa gaaattcag ctttatctt cctctctgctg 120
 aagcatctaa caactgcttg gtttgagggtc tcagcccatc tataaacatg ttcaattgaa 180
 ttgggtcaaa gaatccatga gtgggaggtc ttcttaacaa accccgaaat ctctccaatg 240
 ctctactcaa tgactcatca gggaactggt ggaatgatga aataacaaca ttccctttctg 300
 cagtctttga ctgaggaag tattttctca taaattttct aacaacttcc tcccatgtct 360
 taagactggt gcctttgaat gaat 384

<210> 17257
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 17257

agcttcaaga gaaagatgtc ctacagcaat tctttatttc cagaagggaa ttctatcaat 60
 agacctccaa tctttaatgg agagggttac cactactgga aaaccogaat gcaaattttc 120
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
 cctagagata gatgggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300
 aacataataa catctgcctt aagaatggat gagtatttca gggcttcaaa ttgtaagagt 360
 gctaaggaaa tgtgggacac tcttcgatt 389

<210> 17258
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17258

agcttgcttc tggaaactct gctggcaccg aaactgccta ttatgtaagc tcttctctta 60


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actttattac tattatatta ttgtagaata ataaaaaatc taataaccca ttaatggggt 120
ttaatttctt ttatcccttt attataaaca ctgtcattca aagttaataa tagaaaacat 180
gccttttgtt tgcatttgca ttfgcagtta tottcaaaag gatcaacttg ggatgaataa 240
tcttcagggt ttcttgggtt tttctcttca cttctcttca tttctcttca tttctcttca
tggtaaadaa ttttggaaag gaaaadaada ttctctctat ttttggaaad aaatggaaad
ttcacactt attcctate
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agcttngcttc	tataattact	agtatgggac	tcattgcgtat	gcacgagtcg	ctccgctata	60
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ataaattatat	thgtgtcatt	ataacactag	acaatattat	gatgtataac	taattgagaa	180
caaaaatgaa	tatgggttaa	aaaattatga	ttaacacata	gtaaaataac	tatttatata	240
gaaactgtta	attaacaaag	tcataatggt	caagagattg	tttttagcaa	aaacatgccc	300
acaaaataaa	gtgttaattt	acaaatatta	acaaaagtca	gaataatatt	aaacttaatt	360
cattaaca						368

gcatocaata cccatgatgag gatgtcccat atgtttcttaa gactggactg attcatttgc 60
ttgcaaaagtt tcatggcctt gtaggtgaag acccgacaaa acatttgaaa gaatttcaca 120
ttgtctgctc taccatgaaa cccccagatg tccaagagga tccatatctt ctgaaggctt 180
ttcttcattc attacagga gtaggcaaaagg actggctgta ttaccttact ccaaaqtcca 240
tcacaaactc gaatgacctt aagaaagtat tcttadaaaa aattttccct ccttcacagga 300

ccacagccat caggaaggat atctcaggta ttagacaact cagtggagag agcctgtatg 360
 agtaactgnga gagatataag aaactatgtg ccagttgccc ccaccatcag atttca 416

<210> 17261
 <211> 402
 <212> DNA
 <213> Glycine max

<210> 17261

cccttatgct gcaaatattt acaatagacc tctccaacct ttcagctaaa tcaattacag 60
 cagaacaatt atgacctttc cagcaacaga tacaaccttg gatggaggaa tcaacctaac 120
 ctcagatggt ctgaccttca gcaacaacag cagcctgctc ctctcttcca aaatgctgct 180
 ggcacaagca gacatacat tctccacca atccacaac agcaacaacc ccagaaacag 240
 ccaacagttg aggcacctcc acaaccttcc ctogaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcttcattc agagctaac caatcagatg 360
 guacaattgg ctaccaatt gaatcaaca cagtcccaga attctgacaa gctgccttct 420
 caagctgtc 429

<210> 17262
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17262

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 tggccaaggc tgcattggag atcctgaaaa ccactcatga aggaacctct aaagtgaaga 120
 tgtccagatt gcaactattg gccacaaaat tcgaaaatct gaagatgaag gaggaagagt 180
 gtattcatga ctccacatg aacattcttg aaattgccaa tgcttgcact gccttgggag 240
 aaagaatgac agatgaaaag ctggtgagaa agatcctcag atccttgcct aaagatcttg 300
 acatgaaagt cactgcaata gaggaggccc aagacatttg caacatgaga gtggatgaac 360
 tcaattgttc ccttcacacc tttagctag gactctogga ta 420

<210> 17263
 <211> 410

<212> DNA
<213> Glycine max

<400> 17263

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ggtttttt ggtttttt ggtttttt ggtttttt ggtttttt ggtttttt
aacatcccttc atacacactt tctcttattg gttaaaatgt atttagttta agaaataagt 240
ccacaaaatc ttgaacctac caagtgtgat ggttgggatt ggtatgagcg cgaacatttg 300
ccctacacat ttgaagtga cgtcactgca atggaagatg cccaacacat tcgcaatatg 360
aaagtggatg aattcattgg gtcccttcat acctttgagc taagactctc 420

<210> 17264
<211> 422
<212> DNA
<213> Glycine max

<400> 17264

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tctgtgatcc tttacataaa gattcataaa atactggatc tccaccaaca caagcaaattg 120
gtcgataaaa ctccaaaatg gcattttctt tcgacctat tattttttta tcttatcat 180
ttaggaaaga aacgaaaata tcaggataac aaacattctc tagaatttcg cttaaattcg 240
aacccatagc tgatgataaa actagaatag atattttctg tttcctactc acacgagccc 300
atatccttgc tttctatca atctctaatt ctaatctacc ccccagttc gatattatgg 360
tgccagtata gaccgaaatt ccgctaaggt ccaattctga accgtaataa ataccaaggc 420
tt 422

<210> 17265
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17265

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agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgcgggt agttactcaa gggacttgaa attcaagctc caaaaaactaa 180
 cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgtc atgattcaag 240
 caattattca caaattatg gaggaaata tgggtcatt tcttaattgt ttactcaatg 300
 caattattca caaattatg gaggaaata tgggtcatt tcttaattgt ttactcaatg 360
 caattattca caaattatg gaggaaata tgggtcatt tcttaattgt ttactcaatg 420
 caattattca caaattatg gaggaaata tgggtcatt tcttaattgt ttactcaatg 480
 caattattca caaattatg gaggaaata tgggtcatt tcttaattgt ttactcaatg 540
 caattattca caaattatg gaggaaata tgggtcatt tcttaattgt ttactcaatg 600

<110> 17266
 <111> 388
 <112> DNA
 <113> Glycine max

<400> 17266
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 tgatagtata gtaacaataa tgataagatg atcatgatat aatagtgata atggtgacaa 120
 aaatagcaat agtaatagag atgatgataa taatgataat agtaataatg atgacaataa 180
 cgatgataat cgcgaaagta ttaagtatac ctttatttta ttttaggttt cttacttat 240
 ttgatgtcac tatttattat tgcattcaat ttggtcttta cttattttaaa aaacaagtaa 300
 ttcattaggt cttttttgtt caaaaactatt tatttattta tactgggttta agttaaata 360
 acattatttt ttttataatt aatgcttg 388

<110> 17267
 <111> 421
 <112> DNA
 <113> Glycine max

<400> 17267
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 cctattttta atggagtggg ttaccactat tggaaaaccc gcaagcaaat cttcatagag 120
 gctatagatt taaacatttg ggaagcctat gaaatagggc ttatatttcc caccatgggt 180
 gctgcaata caacaataga aaagcctagg gaagatttga gtgaggaaga aagaagacta 240
 gtacaatata acttaaaagg caaaaacata attacatctg ccttaggaat ggatgaatac 300
 tttagggat caaactataa aagtgcacaa gatatgtggg ataccctcaa gtaacacatg 360

aaggcacaac aaatgttaaa agatctagga taaacacaca ttaactcatg aatatgaact 420

a 421

<210> 17268

<211> 17

<212> 17268

<213> 17268

agctctgagc aaattcaaac gacaataaat tttactcag atgtccgatt gggtccgtga 60

gtttatcgag acgtccgtga ttgaaaatgg aagttccgtg caaattcaaa agacaataaa 120

tatttatttg gatgtccgac tgagtcocat aatatatcga ggcaactcga attgaaaacg 180

gaagctcggtt ggaaattcaa aagacaatat atttttactc ggatgtgcta ttgagtcoca 240

ttatatatcg cgaagctcat aattgattac ggaagctcgc tggagattca accataaata 300

ctttttactc ggatgtcga ttcattcett aagtatatcg agacgctcgg aaatcac 367

<210> 17269

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17269

ttgagcaaat tcaaacgaaa ataaattnta actcggatatg tccgattgtg tgttgtacta 60

tatcgagacg ctctgaattg aaaacggaag ctctcgcgcaa attcaaacaa caataaattt 120

ttacaaggat gtccgattga gtcccataat atatcgagat gctcgttaatt gaaaaacggaa 180

gctcattata aattcgaacc gtaataaact tttactcgga tgttcgattg tgctccgaag 240

tatatcgaga cgtctcaaat tctgaataga ggtctctagt aaattcaaat gacactaact 300

ntttactcgg atgtccgaat gaatcccyta atatatcgag atgtctgaaa ttgaaaacac 360

aagctcgtag caaatgcaaa ccacaataac ct 392

<210> 17270

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17270

ccaacatcag accacttcca ggggtgctgga tctacttccac atggatttga tggggcctat 60
gcaagtgtgaa agccttggag gaaagaggta tgcctatgtt gtgtgggatg atttctccag 120
atttccctat gttcaattta ttgagatagaa atcagatgac ttgtatgtat tcaaggagtt 180
tctgtgtgtggt ggtgtgtgtggt ggtgtgtgtggt ggtgtgtgtggt ggtgtgtgtggt 240
tactatattt caaatattta cctttattga attctgtgaa ttgtgaaggaa tctactatga 300
ttctcttga gccattacac cacaacagaa tggcatagtt gagaggaaaa acaggacctt 360
tcaagaagct gctagggtca tgcctccatgc caaagaactt cctataatc tctgggctg 419

<410> 17271

<411> 404

<412> DNA

<413> Glycine max

<400> 17271

agcttgcatt ttatatgttt cgaacaaatc tgataggtga aataaatatt tttttttaag 60
tttgtatctt gctcaccaaa tctactaaaa aacacactcg tccccgtacc taaataatga 120
tgtgaaaaaa ttttttttga agaataaaaa atgtataaaa ttagaagatt ttttctttca 180
tattttaagc taaatatat cactactaaa tatatcaact tttataatag tattaacaa 240
taaatattaa agtggttaata ctaaaatata ctaacattta taatagtctc aatattaaaa 300
gcatcaaaat gtcttacata ctggtttata tcggtaatcc gcaagtcggt agataaagtc 360
cactaggcta aactaaaaaa tttaatatag ttatccagat tttt 404

<410> 17272

<411> 404

<412> DNA

<413> Glycine max

<400> 17272

accttttcta ctaagttgac tgatgcttga aatgtctttt ctgatggcag tggctctaga 60
tccagggaa agtttctcca agaacacctt ctttaaggtca tcccagctga aaacggacct 120
gtgagcaagg tagtatagcc aatcttttgt cactccctcc agagaatgag gaaaagcttt 180
tagaaagata tgatcttctt ggaatcagg gggcttcatg gtggaacaaa aaatatggaa 240

ctccttaaga tgcttatgag gatcttcacc tgcaagacca tgaaactttg gcagcaaattg 300
tattagtcca gctttgagaa catatgaaac accctcatca ggatattgaa tgcacaagct 360
ttcataagtg aaatcaggtg tagccatctc cctaagagtc ctcttac 407

<210> DNA
<211> Glycine max

<223> unsure at all n locations
<400> 17273

gtgtgttata cgagacatct ttccaaacaa agtcaggtta gcgataactc gcttgtgctt 60
ttctctccat gctatatgta gcaaaagtcct tgcctcagtc aagtttgatg agttggaaaa 120
tgaggtccga attatactgt gccagtttga gatgtatttt caccctgctt tctttgacat 180
catgtttcac ttgattgtgc atctgggtcag agaaatcaaa tgttgtgtgc ctgtttatct 240
aagggtggatg taccctggtt agcgatacat gaagatctta anagggtata caaagaatct 300
atatagtcctg gaagcatcta ttgttgagag gtacatt 337

<210> 17274
<211> 287
<212> DNA
<213> Glycine max

<400> 17274

aattctagtc aacaaagcaa aaattcttgt gtttaacact tttattttac ctaattgaca 60
ttatatttgt atacagctag acttgtgatg gtttaagct tgcctttctt ttgattaat 120
gacagattac tgcactggtc acaacaaacc tgaacaaagt aattgatgtt aattactacc 180
cagttgaaaa tgcaaaacgg tctaacttgc ggcacagacc aattgggtatt ggagtacagg 240
gtcttgtga taatttcata cctccttga tggcatttga ttcacca 287

<210> 17275
<211> 410
<212> DNA
<213> Glycine max

<400> 17275

agcatlgatt gaggatttga ttgtttatcc ggtgtctgaa aatcccaccc aaggttatca 60

aattcgagag tttataaaaa ctcgtaagag tttcatagac tgcactcgta aactcaactc 120
atagactcgt aagagtcctac ttcataataa aataataaca aaatatctat aaataacata 180
ctaattaaac atttcaacca tataataaag caaaatagta aatcataaag ttbagaatat 240
gaggtatggt tttatggtat tttatggtat tttatggtat tttatggtat tttatggtat
gaggtatggt tttatggtat tttatggtat tttatggtat tttatggtat tttatggtat
attagaggta aatattttat atttgagaat aacagctac atgaaggtat 410

<210> 17276
<211> 398
<212> DNA
<213> Glycine max

<400> 17276
tataaacgga tttcatctag ctcatcttgt tgcactttc tttctctctc agcctgatca 60
atagagaagt tgcaggtctt tacagccag taggctttgt gctctatctc tacaggaaga 120
tgacatgctt tgcacaagac aaccgataa ggagacattc ctatgggtgc ttgttaggca 180
gtctatgctg cccaaagagc atcatctagc ctggtgctcc aatcctttct gtccggtctc 240
acaatcttct cctagatcct tttatctcc ctgcttgaaa tctcagctct cccattgggt 300
tgggggtggt atggtgtgtg tgcaccta cctttggcg ggcgagcgag gtgagggctc 360
acgggtgctt ctccatagg aggaaaatgc gcggagtc 398

<210> 17277
<211> 388
<212> DNA
<213> Glycine max

<400> 17277
tggcttgcaa gctttgacca ttggaatggc tcaagcctt ccattgttca atatcgagcg 60
ctctgatcta ttatgcgctt gaatcggacc tccagtgaa aagtttaagc cacttgaatt 120
gttcaagagc ttccattaac caatttcgag ggtctcgata ttttatgttc cttaattcaga 180
ctctcgagtc aaaagttatg tccatttgaa tatctcgaga gcttccgttg cttaatttcg 240
agcgtctcta tatgtgagc tctgaatcg gacctccgag tgaagaagata tgaccatttg 300
aatactctga gacatctcgc tttcaattt cgagcgttcc tatatgtgat ggccttggat 360

ccgacctccg agttagaagt aatgacca

388

<210> 17278
<211> 412
<212> DNA
<213> Glycine max

<400> 17278

agcttccttat ttctagataa tgcagttgag ttgttagcta ctccatgcac tccctcaatg 60
actatagcat catctctggc gctaaaactgc tgggagttgg aagccatctt ctcaattaaa 120
ttcttggtctt cagcaggagt catgtctcca agggctccac cactggcaga atctatcata 180
ctctctctcca tctttcggag tcttccataa aaatatggga gaagcagctg ctctgaaatc 240
tgatgggtgag ggcaactggc acatagtttt ttaaactctt cccagtattc atacaggctc 300
tctccactga gtgtgtctaat acctgagata tcttctctga tgggtgtggt cctagaagca 360
gggaaaaaat ttcttaagaa tactctctta aggtcatccc agctcgtgat gg 412

<210> 17279
<211> 323
<212> DNA
<213> Glycine max

<400> 17279

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ttgggtctctg gtatggaacc ttgttaaggg ccaagggtgta gctcagcaac ttagtaacat 120
tgttggacat caaagggaga acgtagtctt gaacaccaag ctcatacaac ccggtcttgc 180
atgtctcaag gttagtgaag gctgcgctga gccatgtttg ggcatcaact tgtgagagct 240
tgggtttatg ctctatgggt tggctgagat tggcaatagt ttgtccataa agctcaacac 300
aatcagccca tgcgaactctt tac 323

<210> 17280
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17280

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 gatcaatggc tagtcatatg gcctgacaca tcccaacatg ttcttcacag agattactct 120
 gaccattgoc cggtaatttt gaaaactaaa ctgggttgatt ggggtcctaa gccctttagg 180
 ggttttactt tat tctcaa tcaaaaaaga tatcaaaagt tctgtcaga tttttttct 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
 ttgagacaga agttaatga ttggaaaact acagct 396

<210> 17231
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 17231
 tagggattac ggatacttta ctaagtatga tctactatta ttgacaact taatgtttag 60
 ggtttagggg tatttgacaa atgacgattt ttatgtagtt tagcacttag ggtttagttt 120
 taccgacta attcgggtta aaggttatct gacctattaa ggtcacttgc ctaattacgg 180
 attaggtata ttgaaaaat taaggttact tgactaatta tgatttatat gtgtctaact 240
 gattaaggat atgaatacat gactgagtag ggtttatatg taattgacca actatgggtg 300
 agggttatat taactatttg ttacagata catgactaat tat 343

<210> 17232
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17232

actcagctta accccttctt cctctatctc aaaattttgtg aggcattctt tcaaagcaat 60
 tatgataata atgtcccatc ccactttgct gctcatatgg ttgtccctgtg ttattttgca 120
 aattaaagta ttatttatat tttaaaaaga ataaaatgtc gagaaattag atcatatrat 180
 gtaagtacaa aagttacgta agtgaatatt atatgatcaa tcaatattgg ttacacttcc 240
 atggaaactca gaaactgttc tcttgaattt gaagattttg gaaactcttt accaatcagt 300
 ttctccacaa ttgcacaaac cctctctctg gataatatgt ttccaggtgg ccttaagttaa 360

actgtcttgt tccgtgttct ngggtcactct atggttttga tagtggacat agctatatca 420
tcttcat 427

<110> 17283
<111>
<112>
<113> Glycine max

<400> 17283
tattgtggag ttctaaacgg attatacaac aacaacttgg ctccagatgt gggccgagta 60
agcatatgca aajtggccag gaaactcttc aacttagaac aaatggcttt gcactgttga 120
tctaatgaa atccgggttg ctgtttcagc agttggaaaa atgatttcgc ctctctggcc 180
attctcagta gaaatcaaga tagagccacc agtctatcga tcaacttcta taactcttcc 240
atgttttctg ggtgcacat ggcagttctt aattcgtact tgtttgggtt ggcctcgatc 300
cccttcgagg tgattcatga accaaggaa ttaccctctc caacctg 348

<110> 17284
<111> 401
<112> DNA
<113> Glycine max

<400> 17284
agcttctcat ttgatccagc agaggagaag catacaacct atttcaactca agtcacaccc 60
acggaactct agcacaagag acttggctcat cgtcatcttg aaagaatgct aaacatgaaa 120
aaaatgaaat atgcaaaaaga aaatttgaag aagtttcaaa cggaggaatg caaatctgtt 180
agtacacaaa tgaatcaaaa ggagaagttc agcaaggaaag aaggcgttga taacattgat 240
gaaggatatt atgggaactt gattggatgt ctaatgtatc tcactacaac gagaccaaac 300
attctatctt ctcaaaaaga caaaactgga atttttgtga caatcaagta gtcattgcta 360
ttgcaaacaa tccgtgtgt catggaaaaga ctaaacattt c 401

<210> 17285
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n. locations

ttacatttgt tghaaggcaa cgcacaaaggg atctcatata gtttcagyna agottgcaa	60
gggttttat ggacatttcc aagtcataga atgcattggg ctggttgcat ataagttaca	120
atttcaatg caatttaaa taccacacgt attccactt tacaatattt attttttttt	180
tt	240
tt	300
ttgtttcatg caattggaatg gtatctaac ttatgatacc tcttggggaag actggaatca	360
gttgttgaaa aaataaacacc ttg	385

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:210>      17236
:211>      423
:212>      DNA
:213>      Glycine max

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tcttctcgggtt	tcattctctcta	tgcacctcgc	agatatcttc	accaatgttt	tatctctcttc	60
tattttttcaa	caccttttcta	ccaagctggg	aatgatgaat	atccattccc	agcttgagggg	120
ggggatctta	acagcatctt	gttagagtta	gttatgatag	ttattttctgt	tgtaaccact	180
ctcgtgcttg	tacatatata	agcctctcag	tgcattttaat	aagatgagtt	gcagttttga	240
tcatcaagag	ccaagcctag	cttttccactg	caccacctga	tattttttctt	ctcagaaaaca	300
tgagttttac	gtttttcttc	cagcttagtt	caatatttgt	tttcaacagt	aagtttagcat	360
caacaaatat	ataaaaatgt	tggcagagtg	tacattacta	tactacctac	gtgcttatct	420
att						423

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#210>      17237
#211>      375
#212>      DNA
#213>      Glycine max

#233>      unsure at all n locations
#430>      17237

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gtggatcccg	aaagttattat	tgtctgcagct	ctaatggata	ttatataaaa	taaggagaa	60
gctcttggcc	agaaa'acgg	tggtcttgcg	gctcacaata	ctgtatgaca	ttttggggga	120
atctaaaatt	atgtaattc	ccgacaaaa	tctaacctgc	tatttcgata	ttctctgca	180

ggtgtgtgtga tatatgtaac atatattttg gtgaatgaca ggtgtttcca gagaggoatg 240
 gaaagtggaa agcaacaaca caatccagag agtttttaaa atccataaaa caataactata 300
 gcaatgotta caagatggt gaanaacaag atggaatana attgtattat tctttccacc 360

<210> 17288
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17288

agctttatat tgaatcttct aaacttttct ccttgataaa aacatcaggg actaaattat 60
 gcaatttctt ctttcaagga cacattgtca tctctctgat ctatatgctc caatgctctt 120
 ctatccacaa aatttaccat tctgtgaggg aaaaaagctt taagtaaaat gaggttgcttc 180
 ttaattaaaa ctctattctt tctcgtagtg cttctttctgg ggaaagtact ccagaattat 240
 ctatacatgt ggcattgacaa gtaaccaatga tcaatgagag taagttatto caagattttt 300
 tcaaccagttg aaaaaagatt aaataccaca gttccaacca aatacaaccc aactgaaacc 360
 ttgaaaacat catcccagga gctgaanat agtc 394

<210> 17289
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 17289

ctccgctata ccttctagtg atcttgagcg cttttgcatt ttctctagaa gctatcggac 60
 ttgttacttt cctgttatat gatgagagat tgcctaagaa ctgttctatt tgetgtgatg 120
 acaagccagt gccaatatg attaccttaa aatgttctca cacattcttg tcaattgctt 180
 tgaggggcta tgetgatggt aaagtacaa cttgtcaagt cctataaga tgcctccaac 240
 caggatgcaa gtattgcaca tctgtaactg agtgcgaagt tttctctcca ttaacctctt 300
 ttgaattctt ggagaaatcc ctgtctgaag cgaatatatg ctgtccacat agaatttctt 360
 tgcacatccc aaatcgtctt agtctcttgg atctctat 398

<210> 17290
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17290

agctctatga cttccatata aatgataatc ttccatgaaa tttatgaga cttatgatat
 ttccaaatgc aaagaatcta agaataaagc ttgttaagtc ctttaataaa gaatctcaca 120
 caaaaatata taactaaaaa gaaatcatca ttgaaaagaa aaatccaaaa taataacttg 180
 ctaatattaa tttatttaag tcttccctt tcttttttgg tcatcatcat taactctagt 240
 tcatcaagaa taaattaaca attttaagaa ttttattctc atcaagtgat ccaaattcat 300
 cctctacaat gtctacatt ttagtctct cttgatggta ttgtaggaaa tttcttgaaa 360
 ggagacgaag attggtataa acaaatata gatcctttgt ccgatgaggt gt 412

<210> 17291
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17291

agcttgagtt catgattcan aagaaaacac ctcgtaataa agccaattta gttcgacaat 60
 tgggtgaagtt ggagtataag gatggtcata gtatgattga gcaactgaat aattttaaag 120
 ggctcgtaaa tcaattaacc aaaattgaga tgaagattga tgatgagttg caagcccttc 180
 tactccttag ttccttgctg gaaagttggg acacactcgt ggttacactt agtaactcag 240
 ctccagaagg aaagctcacc atggatacag tcagtgacag cctctcggg gaagaagcaa 300
 gaagaatgga acgaggtgag tctatccatc ccgaggctaa tgttattgag aatcgngta 360
 ggaatgagac tcttgatgt aataagagcc gagatctgag ttttcccaac act 413

<210> 17292
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17292

ccccatatat taaggcaatg aatcggaat cagagtaaaa agttat

346

<210> 17295

<211> 429

<212> DNA

<213> Glycine max

<400> 17295

ttaaggtaaa ctatgatccct tggtaaacct ggttaacttat ctggccatga ataaaaaata 60

tgcacctgtc ggcagaactct gtgggtttatg ctctctctgcc gaccaccaca cggacctttg 120

ccctctctgtg caacaattctg aagcaattga acagcctgaa gcttatgtctg caaacatcta 180

caacaaacat ccaccaacctc aacagcaaaa ccggccacaa caaaatagtt atgacctctc 240

cagcaacagg tacaatcccg gatggaggaa tcacccaac cttagatggt caaatctctc 300

aaaaagctag cagcaacaac aacaacctta tttcgaat gttgctggcc caagcagacc 360

atcacctcca ccaccaatcc agcaacaaca acagcaacag cccagaaaac aacaaacagt 420

tgaggcccc

429

<210> 17296

<211> 412

<212> DNA

<213> Glycine max

<400> 17296

agcatacata tatatTTTTT gacaacatcc gtcatgcctg cattaaacat gattcttctt 60

ttgttagaat tggccaaaat ggtgatagtt caacaacttt tctataata atcagcgttg 120

gtgacaccag ctgagcagat gtaattttct cgtgaaggtc ctttagttca gcaaacacct 180

gcacatagc aaaataatca gctattggac ctagcatccg gaaaagttga attaagaacc 240

agctatatat agattcacac acaattgtat ttatttatca gtttttaata tcaaccatgc 300

agaagtacaa aataaaatgt ctcatattca caactacctc ctataacaaa acattattaa 360

gatactata ttctattagc ctgcacttta gtytcaggta cactctcttc ac 412

<210> 17297

<211> 408

<212> DNA

<213> Glycine max

gctgggggca agtaaatTTT ctcccatca gaccttgat gaaactgtga tegtataccc 180
 atatraacta gatcttgaag ggtattcaag ccattcttgc tcttgcttg aatgttaagg 240
 agtgtgccc aaacaactgt acaaacattn ttctcccat gcataacatc aatacaatgt 300
 aaagtcaa gatcacaca gaagggaaga tcaaagaaa ggaatcttgc ttctatgc 360
 agtattgc ttctatgc

<210> 17300
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 17300
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 atcaagccaa tcccaagata agtcaactga atcaagtaaa gagaattctg aaatatgtaa 120
 atggcaccag tgaactatggg attatgtact gtcattgttc aaattcaatg atgggtgggt 180
 ctgtgtgatgc tgattgggct ggaagtgcag atgacagaaa aagcacttct ggtggatgct 240
 tctatctggg caacaatctt atttcatggt tcagcaagaa gcagaactgt gtgtccctat 300
 ctactgcaga agccagagtat attgtagcag gaagcagctg ttcacaacta gtttggatga 360
 agcagatgct caaggagtac aatgtcgaac aagatgtcat gacattatac tgtgacaacc 420
 tgagtgc 427

<210> 17301
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 17301
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 tcattctact gcttgcctgc aatgaatatt tctccctaac aagatcaatt ttcaaatgc 120
 aagggtgaaa atatgcagaa atgaatttcg aaccagggtg cccaatttca caatgatcca 180
 aagggttaatg agtctgggat tatagtctta ctaggacagg ttttgggtct ctgcaagaaa 240
 agaaaaagtt aagatgagaa ggaatttct ctccctcca actctgattc gcaatttcca 300
 tgggtgagaa tacttgaata tgagctgcaa acttgggtgt caaatttccac aacaattccaa 360

cgattaaaga gtccaagatc attgtttttac tgagacagat ttg

403

<210> 17302
<211> 409
<212> DNA
<213> Glycine max

ttctctccat atgataagag cttatcaaat aagcatgatt tagctgitta cacaaacaca 60
ccatctatgt attaaatcta acctgataga ttaagattaa aaaaaggaaa aaaagggttg 120
ttatcctca aataaaaactg gctttttctt ttacactggc atcgtgggtg ggtacacatt 180
ctggtaacaa ataattacaa ttattcctac aaaataatcc agaccacccc atttgtgtgc 240
agcaactagcg ctactagatg gatgataaaa tgggaggctt taatagatgt atgtttcttg 300
tggattgitta taagaaccaa ctntgttcag ccaaagytta actagtccat cactgtgata 360
ctacacacaa atagaataca tctttttaaa aacaaaagtt gtccaccac 409

<210> 17303
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17303

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aacacgacta aaatccgtag taagatgaaa aataaatttt caatttaata cttatttagcg 120
tatatttaaa agaaagctgt tagaaattag taattattga ttatttttgg gacatgtaag 180
aaagacatta tgtgtgcttt ttttagcgag acaatgttat ttggtttaat agactaataa 240
tgtaatstaa catattgaaa catcaaatta taaatattct gtacaaaatt aatggatatat 300
agatcctgga tgtatttatt cagcataaaa aggttcctgg atgtatttta ttttttgaga 360
ctggcctgtt ctatcttc 378

<210> 17304
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17304

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ttgtattgtg gattatcttg aatggctgct tcaacagatc ttgcaaccca aactactgat 120
cttctctctt ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct
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ttggagcatt atgtatataa aggaactgga ttgacttaa ctatcttaag atcaaaaatg 300
atagcaatgg caatatcttt agtgtttctt cggcagggtt tcacatctgc aaactcttgc 360
ccaatgacta acggtctctc tgcacagta acagtactaa cagatgtgt 409

<210> 17305
<211> 383
<212> DNA
<213> Glycine max

<400> 17305
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atcttcccat ggaggggggc catcaccaga gtcattggtta agagaactcca ggaagattgg 120
gccaggggatg caagagaatg ccttaggggtt ctcatgagcc ttagggtagc ttttggggcc 180
atgggttaag tatgtgccc aattatctctg ttcatattag attatgggtt cattatcttt 240
ttgggccttg atttagggca ccacagtgtg gggagggtag ccataagtt tagggtagcc 300
tagtaatgta ggatttttca gcccttctat tttagggctc acagaactagt ttttgtatca 360
gggatagttt tgtaatttca cat 383

<210> 17306
<211> 377
<212> DNA
<213> Glycine max

<400> 17306
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tagacattct cttaaagatt tatgcaataa tatggctttt ctatctatga ttcaacctaa 120
aaatataaaa caagtcatat tagatgataa ctggatcatt gccatgcaat aaagaactgaa 180
ccaatttgaa agaaacaatg cgtggaaatt agtagaaaaa cctgaaaatt atctgtctat 240

aggaacaaaa tgggccttta gaaataaatt atatgaacat ggtataatta ttagaaataa 300
 agccagggtta gtagcaatag ggtataatca agaagaagga ctagaactatg aagaaacata 360
 tggctctggtt gcaagat 377

<210> 173
 <212> DNA
 <213> Glycine max

<400> 17307

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 gcaagagaat gccataaggc cctcatgagc catatggtat cgtatagtgc ccattgggtta 180
 aacatgggoc cactgatcat tgtgatatt atatcatggt aacactattt ggtggagcct 240
 cgaactcatg cagcacattg tatgcaggga tccacataat gtt 288

<210> 17308
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 17308

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 taaatattct acttttaatt tgatccaaca acccaaaatt ccctttaaaa atgaactcct 180
 aaataataat gcaaattaat tcttactgaa tagaaataat aagcaataaa caataaagga 240
 gtttaaggga agagaaaatg caaactcaga tttatactgg ttgggcaca cccttgtgcc 300
 tacgttcagt ccccaagcaa cccgcttgag agttccacta tcttgcaaaa tccctttaca 360
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<210> 17309
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 17309

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tttttaactt ggaatctcga ttgacgaca taatattcg attcagcga atttctaaa
ctgtggtc tttttttttt tttttttttt tttttttttt tttttttttt
ataatattc tttttttttt aaatttaaca taaaagctct agtccatttc aaaggtttaa 180
aatttttgac atgagtggtat gattgaagcc catgatatat agagaagctc gaaatngaat 240
aatggaagtt ctoga 375

<210> 17310

<211> 402

<212> DNA

<213> Glycine max

<225> unsure at all n locations

<400> 17310

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agtgatccaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttaccatc 180
taagcatatt ttgcaatggc ctaaggccta aaactaagat gattctggat gcagtcgcta 240
gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
caactgatca ccaatctcag cataacagac aatcgatata taaaagagga gtgttggtac 360
tcattctcaa gggctctttca atggaaggtt ataaacattt tg 402

<210> 17311

<211> 321

<212> DNA

<213> Glycine max

<400> 17311

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agagagcaag aaatgaagag ccaatgggtg atacatggaac ggagatcaaa aagatcatga 120
agaaggggta tgttccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaggcaa caaggggggt gatgagttat taaggaaaag gatgtgctca tgatttaagc 240

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 tatccgtgat cttgtttgagc t 321

<210> 17312
 <211> 111
 <212> DNA
 <213> Glycine max

<400> 17312
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 ctacgctctc gatatattat gtccccgaat cggacatccg tgtgaaaacg tatgaccatt 180
 ccattttctc gagagcttct cgtgtttcaat ttgagcgtc tagatgagtt atgtccccga 240
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<210> 17313
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 17313
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 cactgtgggc catccacca aggttgtagc tctttatata tccccgcagc ttgcaatgat 180
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 catctcatg atggtaagtg ctctccccc aa tgcagatct ct 402

<210> 17314
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 17314

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 ggtattgato totgtgatgg aagatatgac actcaattcc attcaatttt cagaaccctg 180
 aacaaatatt aataatatt atgtttatga atgtttatga atgtttatga atgtttatga 240
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<210> 17315
 <211> 414
 <212> DNA
 <213> Glycine max

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 ctaactccgc cagaaccato ttgatcttct tcccttcaac aattcaattt ccaaattaag 180
 gtttgatgat gcaacaccaa cacggaggtt toagattcag attattgggc tatctctctt 240
 ccacgcgcgg taaaatgagc ggtgcattat tgggagggaa aaaaagttaa actgtaacca 300
 ctacatacta atgggccttg gctcggattg agccttcata ttgtaacca tgctatgtgt 360
 tgatecgtac gtaactgtat tacatgaaga agcttggtat gtggtgatgg aaaa 414

<210> 17316
 <211> 426
 <212> DNA
 <213> Glycine max

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 tgettaaaaa atttaattat tcatcaactt tattggacct tatttggtat gtaaacactt 120
 gttgtttcat gattgttcta ccaaaaacat actccaatga ccatttctta ataagaatca 180
 atgtttaata agtttccacc atatgaacac ctttttgag atgcccattag acacaaataa 240
 ataattcgtc ccacatagct cacttttaat aataaaaaaa gtctaatgcc gatatttatt 300
 gttcagtgaa gtgatataat taagttagtt attttaatga ttaatatatt togataatto 360

aaagaattta ttgtcaatta accaagttaa taaccatcac tcccgatcatg ggaaaaaaaa 420

ttaagt 426

<208> 17317

<209> 346

<210> Glycine max

<400> 17317

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aattacaatt tatattatct tatatactta ataattgaact gatttatagta aaaaaaacia 426

taataattga ctacataatca tacctcccta gccggtttgt gtgcaatcaa caaaagctat 432

ctttcgtttt atagactcta taatctcttt ttgtctttga gagggaactct atataatttc 438

ataattgcat attaggtatt aatatattta aagaggcttg ctatctatagc tacattcggt 444

tattttataa ttggaatagc ttagtaagtt ttaactaaat attatcttca aatatattca 450

caatgtagct ggctaataa caccaattga acaacaagtt aatgta 456

<210> 17318

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17318

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ttcccttctc aatattctag tgatcatctt gatgttgtga ctgtgtaatt tgaagtattg 466

ctttgaattt taatcttgaa aagcccatct gcatcaattg caacacatca tcatgatcat 472

catcaaaaaca tcaaagccaa ttgcattctc acatgtgtcc tccaccttcg agattggagc 478

taigtcttcac gatggcctaa gtgcgggacc tcaaggcaat ccggcattct tctttttttt 484

atcggaagcc catgaatggt attgcctagc gatattcatg tgcctt 490

<210> 17319

<211> 421

<212> DNA

<213> Glycine max

<400> 17319

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aagggttagag agaggaagac tacagatttg gatcacgtaa agtgtgttaa ggatgaagaa 120
gagcaagctc taccagctga aaaaatctt aggggaaggt ggaaggtgta ttccacacac
gagcaagctc taccagctga aaaaatctt aggggaaggt ggaaggtgta ttccacacac
aacctaaagt atctatctgtt gattacgaaa gagaaagtaa agaaagcgtt gaaaaaagtg 180
agtaacggta atgcggtggg gccagactac atacctattg aagtgtggaa aactcttggg 240
gatataagtc ttgagtggtt caccaaactc tttaatgaaa ttatgatgtc aaaacgcgtg 300
c 421

<410> 17320

<411> 409

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 17320

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tttgaagact tcttctaggt ctgccacgtg ttgagttatg ctctgaaact tgatgaccat 180
gtcatcgaca tagacctcaa tgttttgtcc aatctactac ttgaaaatct ggtccatcaa 240
cttatgggtat gtagcacctg ctttttttag ggcaaagggc atgacctat agcagaagtt 300
ggcatcctca gtgatgaatg ccattttctc ctcatcttga gcgtgcatcc ggagtagatg 360
cttaggaagc ttagtacttc gaacctggac gctcgatcaa atagcttat 409

<410> 17321

<411> 327

<412> DNA

<413> Glycine max

<400> 17321

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agccatacaa tgccttaagc aattagaaca ctctatcttc cttgccttag atctccaaac 120
taccaggttg ttaacaaaac cactctcgtt gccaaaggtac cacttcaggt aaagctgaca 180

tttacattaa tctgggtata aagaccaate tctattatgg gcttgcgcaa ttaccaacot 240
 tatgggttca agcttagata ctggaccata acttcagaat gatccaaaac agatttttgg 300
 aggaatctct ttgcaactaa ccttgcct 327

<210> 17322
 <212> DNA
 <213> Glycine max

<400> 17322

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 actagtatta ctgatcttaa tgcttgaatt tactttgcag attctacttc gattatagta 120
 caacctttgt gggagcacga aagatttgcct tccatctgtt gaactgtctt ttgctccttg 180
 tgaactgtgt cctttatggg gttatgtatc cgttcattga tgggtctaaa ggaaacttgg 240
 ctccagacca ctctgaataa acttacttga tgggcttata cggatataag gtatttggtt 300
 caattgcctt aa 312

<210> 17323
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 17323

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 tccacaagag acatgagcag catctcttct tcttcataaa tctcagcata gtttgcactc 180
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 ctactcttgc ctctacctcc attctgttct tcatgtgaga ccttcaa'gc ttgctcctcc 360
 cttgtgtcac taactgaga a 381

<210> 17324
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17324

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agcttatgct gcaaacattt ataatagacc tctcagtag caaaaccaac aacaacaaaa   60
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cagctatgac ctcttaagca ataaataaaa tctcagtttg aggtatcatt taatctctag   180
aagtaagaca taatctctct ctcaataaaa gtagcagcaa caatagcagg caaataaag   240
aaaaaagca gctgaggctc ctctcaacc ttcttagaa gagttagtga ggaaaatgac   300
catcagaat atgcaatttc agcaagacac aagagcctcc attcagagtc tgacaaatta   360
gatggagcag atggtactc agttg                                     385

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<210> 17325
 <211> 376
 <212> DNA
 <213> Glycine max

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agttcccaac accacatca aatattcact taattcatgt gaaattacaa aactaccct   180
aatacaaaaa ctagtctagg tgccctaaaa tacaatggct gaaaaatcgg gctcatactt   240
agcccatggg cccaaaatct accctaaggc tcatgagaac cctagggcct tctcttgcat   300
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ccccccccc ttgaaa                                     376

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<210> 17326
 <211> 399
 <212> DNA
 <213> Glycine max

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<400>        17326
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gattgctaaq gaagattatc accgatgat ccaccaatct gaacaacagg atgataaag   120
aaatgtgtga ggatttcaag acccaacacc acagttctat gccttacagg cccaagatga   180

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atggggcagt tgaggtgct aataagaata tcaagaagat agttcataag atgtctatgt 240
 catadaagga cgggcaagag atgctaacct ttgagtegea tggttatcga acctcagtgt 300
 gctcattgac tggggcaaac cctttctctt tagtgtaagg gatggaggt atgtctctgt 360
 tttgggaga ggtctctct ttcagaaggt taggcgaat 420

<21> 17327
 <211> 487
 <212> DNA
 <213> Glycine max

<400> 17327

ctaaagcttgt ccatcttgag ataataggtg gtcctctca ttgttagatg atgggtgtac 60
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 tgggcacac cttccacatg taaactcagc caattctctt tttagcttgt cctgtgacat 180
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 caataaaatg ctggcatgtc ttattataag cttctattga cagccactca tgacacatgt 360
 tctcaggett cctccttttg agagttattg ttgcaatggc atgtccgcct gacatcccta 420
 catcaaaag 488

<210> 17328
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17328

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 aacataaaaa gggaaaaggt aatattgtag ccgatgtctt ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattggtc ttaaatgttt gaaaagcatg tatgaaaatg 180
 atgaaaacttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
 gacatgaagg cttctctttt aaagaaaaca aattgtgtgt gcttaaatgt tctactagaa 300
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<210> 17329
 <211> 376
 <212> DNA
 <213> Glycine max

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 atatgcttc attagttatt catctgtagt gtcaaatat aaagatttca tgtctaaqia 120
 atttctttta ttccaatcaa ttcttagact ttagtctcca aatgggatgt tataacttgt 180
 atgaatttca gatgagctta tcaagaatgc caagtacata gccacaccat ggaaggggat 240
 cttggcagca gatgagagca cgggcaccat cgggaagcgc ctaggcagca ttaacgttga 300
 caacattgag gccaacgcgc aagcccttcg cgagcttctc tccaccgcta catatgcctt 360
 caataacctc ttgggg 376

<210> 17330
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <40> 17330

agcttgggtta ggatgcttca atggaggaaa agaattgagag agagaaagag agagggggga 60
 gcacgaaatt gaaggaagaa aaagagagag aagttgaact ttgagttgtg atgcaatcct 120
 ccttaggaag ggaccagtca ctagaacct aagcaagaga ctccaagaag attgggctag 180
 agctgctgaa gaaggcctca gggttctcat gaacctcagg gtagatttct gageccatgg 240
 gctgtgttc aattatcttt gtacatatta gactaggatg tcattatatt tggctcttgt 300
 atttagggct ccatattgta ggtagggtac cctagacata taggattttt tcagcccttg 360
 tatttttaggg cacttagact agtctttgta tt 392

<210> 17331
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <40> 17331

ntatogtcag tctcaaaactt ggcttagtct ctatttttca aaacctatca tttactttat 60
 ctattgtatt tttattattt tataaaaaaga aactctattt tattgtctat caaatgaata 120
 aataaaaaat ttttttattt tctctcaaat cattatttta attaataaag gaattctctc 180
 taatccctta taaattagtt taaaaaaaat gaaatgttac aactgagtaa tccaaatgac 240
 aaaattaaag tggacaa ca gaaaaatatt ggttgagta ggtgatgtac ataactatta 300
 taagaaaaat atgattaacc ttaatatata agataaatat taagttaatt t 411

<210> 17332
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 17332
 agcttcaatg ccactacctt atagggatta tgcctttatt tatagtgtct acttgataaa 60
 tggacttcca tctctatcta ttcaatatga attgacttac taaaaactat tccgaaatt 120
 accagattat agcttcttaa ggatcttttg tgtgcatgt tttctctat tttgactata 180
 tagctctct ctcactaaga ctgctcata atgactccaa agtttctctt gaagattatc 240
 caaaaaaatc tattatgacc ctgaagcaac tatctagcaa tgcattaaag ccttcttata 300
 aatcttcttt tttctttgaa aatattgcc aagagttta cattccaatc tttcaaagca 360
 tgttggatat gtttgacct ttgac 385

<210> 17333
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 17333
 gttgtgcaga gacactctat gttctctac caaaagctta attatacata ctgctatgaa 60
 tttttaaaaa aaataatatt cttaataaag gatatttca tgattatgat ctctaattca 120
 tttttcacac gtatgtttat ggttaagcga tcattcttgt ttaactattt ggaacagtt 180
 aaaaatcttt taattatat taactatat atgtattaaa tattaaaaata tcaataaaaa 240
 tatgattact ctatgatttt aaaaaatct taaaattctc atgactacca 290

<223> unsure at all n locations
<400> 17336

tgctttctaca ccaaacctga agcatccacc tccaccataa agaattttgt taagtcaggt 60
aaagccaaaaa ctggagcctc agtagcttct tctttaattg ttgaaaagcc agttttgttg 120
gcttctctc agtctctc tctctctc tctctctc tctctctc tctctctc 180
ctctctc ctctctctc ctctctctc ctctctctc ctctctctc ctctctctc 240
ctctctctc aggttaaggg ctctctctc ctctctctc ctctctctc ctctctctc 300
ctctctctc agaatgaag tggccaaggt actctaccat agacacccca aaatagcact 360
ctctctctc agcagacaag gaattcgcct tcatagttat cacaactttg tgtanatgta 420
gc aaatgggc ttccaatgaa caatt 445

<210> 17337
<211> 427
<212> DNA
<213> Glycine max

<400> 17337

ttttctctgg ctgttttggt aggattctca agcgttatat agagaaagaa aggattatta 60
gtctcaattt tattgtctcc gtgcgacgga tttttctctc ttacaaaaca ttatttcaaa 120
aatcccaacg gtgaagatgt gagaatttga ggaccatacg cggagtctaa atttcaggat 180
gatccaacag ttaacgaatc caagatcata gttgtactgt aataaattta cgtgtatgcg 240
aaaaaaaaag gaattttgag agaggaagga agacgaacga atttatgagg aagtgagagc 300
gtagatcaat atcaaaattg acctaatatg tttctatctc tagttagagt attctaaact 360
tattatctac tctattattt tatcttatca ctttataaaa aaaagaactc tctattacta 420
tgctcatt 427

<210> 17338
<211> 353
<212> DNA
<213> Glycine max

<400> 17338

agttttgctt ttgagattgt aactatgcct ttgtgtgggt gaacaagcta caaaagggtga 60
gagcatgaaa tgaagagcca ctggttgata catgggcgga gatgaaaaag atcatgatga 120

agctgtatgt gccggctaga tactcaaggg attagaaatt taatcttcaa aaactaacc 180
aaggcaacaa ggggggttgag gagtatttca aggaaatgga tgtgtctatg attcaagcta 240
agattgaaga aaatgaggac gtaactatgg ctcaatttca taatgggttg actaaagata 300
tctgtctat tctgtctat tctgtctat tctgtctat tctgtctat tctgtctat

<312> 17339
<311> 141
<312> DNA
<313> Glycine max

<400> 17339

tattgcatga gctatatcag gttgagtaca tgcctatgca tacattattg aacctataat 60
gttagcatat gtgatactct ccatataagt atactcttca gctctctttg gggattgact 120
ttacattagt ttgaattgat catatatagg tgcacaata ggccaacttc gaatttgaca 180
ttccaaacct ttcaataaat ttattgaggt atgtctcttg agatagatac aaaatcttct 240
tctttctatc ccttttgatt tccattccca atattctctt tgttgcccca agtccttcat 300
ttcaaattec ctttctaact cagctgtgac cttggtaatt tcggccttac cgttacttgg 360
tattaacatg tcatcaacat atagcagtac gattacagag gtaaccttat tctttttgaa 420
tagccatttt caattgaacta c 441

<310> 17340
<311> 393
<312> DNA
<313> Glycine max

<400> 17340

tatcttacta taaataacaa ttaatattta ttatcaaata atagtgtaaa aataatttat 60
actatctata tatgtataaa ctatttgctc ttaaaattta aaacaaaaga aggaagatta 120
aaetcttgtg agagcacggg aaataaaaagt atataactga gtcaaaggat gtatgcttag 180
agacaaagga tgcattgctta gagagttatt atgaaaattt aaatgtccaa cataggtata 240
ttaaactaat aatnaatcta cacattaagg aaattactat gggaaattac taaggatat 300
tggtagtgac atgaagataa tatgtaataa taagggtgagt tattaactat tngttaaata 360
atgattctat actaaatggt cgaaattata ata 393

<210> 17341
 <211> 378
 <212> DNA
 <213> Glycine max

ggttgggtgc cactcttgaa acaaaaacac aaggttcgac atatctgtgt catcatctgg 60
 aaaccccaa tctaaatcga gacattgaa cctgtatttg cgcgcacagt ggatcgtgga 120
 atttatgaac acttgtctgt tgtgtttggt gctagccatg agggagaaatg cggtttgagtt 180
 actaacacct cctccaattg acaagagagt ttccaccggc gggtaacggg agcggagttc 240
 attgatgaat ttgggtatcc atttttcac ccaattcgggtg acaactaaggt gaaaaagttg 300
 aggtctttgt tggataaagg catagtagat atgagtgaag tatttttgtgt caatggaaga 360
 cugtgaaagg tcatcacc 378

<210> 17342
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17342

ccatgatgat gaatcaagta taaatcaagt agttntgatg atgacaacta gcccaaaaga 60
 atgatttcaa gtttgagtca acaagttcaa gatcaagatt aattttcaaga ttcaagaaaa 120
 cacatcaaga ttttaagagaa gatgaattca agattcaaga gaagaaatca agaagcaaca 180
 agtcaagaat tcacaaggga agtattgaca aagaattttt caaaaaccaa acatagcaca 240
 gttttgtttt acaaaagagt ttctcfaat tttctaaagt taccagagta tttactctct 300
 ggtaatcgat taccagttta ctgtaatcga ttaactagtga taaaatttga tttcaaaaag 360
 tttttaactg aatttgcaac gtccaaaaag aatttttaaat ggtgtaatcg attacaatat 420
 atttgtaatc gattaccagt gtatctgaat gttgaattc 459

<210> 17343
 <211> 151
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17343

atcagcttc ttacatagtc cgcctttgct tgacctctt tatgtttaan aacattaaca 60
 ttaggcatag gggaaagatc acgacgagtc tgtgggttaa aaccataaac aatttcgaaa 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 taaaaactcc ttactctggc cagggactta ggtgtaggcc atttttgaat agtcctcaac 240
 atttctcat taaattgcac tctttttgaa ctacacaacaa aactaagaaa cacaacatgg 300
 ttagtacaaa agatgcactt ttcaagattg gtatacaatt gttctttctt aagcacaatc 360
 aagacagatt ctacatgac aatatgcaaa tcaagtgaag tgcttagata aaatatcacc 420
 aagtcacacc acacnaactt tctataactc t 481

<110> 17344
 <111> 430
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 17344

tgtaattggcc tccaaaattt tagacaagtg gcctctgtat cttaagaagg ggggttgaat 60
 taagataaaaa aactttccct aattaaaatt ttaactatgt tttggattaa caatgcaccc 120
 cagttgcccc atcaaatagc taggtcactc gaatgaaact agtgctctta tctttacttc 180
 cctttttattt ccaataaaaag ataagtaaag aagggcaact gtcataccct aatttcgtcc 240
 agggactatc attcatggat attttgattt tcgctagccg aattgagttg ttgcacgcct 300
 attaacaccc aagacgaaag atcattcgac gttntgggtga agaatgcgaa naatacccaa 360
 aagggaggggc aaaagggtca ttnntaatcc tttttttgaa cctagctcg ccaggctag 420
 cctctagctc 480

<210> 17345
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 17345

tcttagtttc agatgagcca gatggttttg taactatctc atgcactcct ctaatgacta 60

tggcatcatt totggcgcta aactgctggg agttggaggg catctttctca attaaatgtc 120
 tggcttcaac aggggtcatg tctccaaagg ctccaccact ggcagcatct atccatcttc 180
 tgtccatatt actgagtcct ccataaaaaat attggacaag aagctgttct gaaatctgat 240
 atttgggga attggcacaat gattttttaa ctctctctca ctactcctac aggcattctt *

<210> 17346
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17346
 tggctttctc tttatgaata atgtggtatc cactttacct ctggagaatt ctttttcaag 60
 aagaaaatta cttaatcgtt cataccatgc cctaggggtt tgtttcaaac cataaagagc 120
 cttttgtaat ttataaacat gatttggttt attagaaatt tcaaaaaccag ggggttcttc 180
 aacatatacc tcttcttgaa ttaagccatt tagaaaggca ctcttaacat ccatttgata 240
 aagttttaaag ttcattatgg atgcatatgc caaaagcatt ctaatggctt ctaatcttgc 300
 aacaggagca tatgtttctt catagtctat catgtaaaaca ttattgactc tatgtctac 360
 atgttttata ttaatgtcat gctta 385

<210> 17347
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 17347
 agcttaataa atcaatctat ggcttgaagc aagcctcttg ccaatgggat ttgaagtctc 60
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120
 aagtcagttg gagtaagatt tcttctctgt gttatacgtg gatgacattt tgccttgcac 180
 taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaaagaact ttgatatgaa 240
 gcatatggga aatgcatttt atgtcatttg cattaagatc catagggaaa gatchcgagg 300
 aatttgggtt tgggttcaag agactctat taacaaattt tttagagagat ttaacatgaa 360
 agatgttcca ccaagtgtac ctcccatg 389

1. *Chlorophyll a* (Chl *a*)

<L10>	17349
<L11>	451
<L12>	DNA
<L13>	Glycine max

<400> 17349

210	17350
211	392
212	DNA
213	Glycine max

440 15350

tagcttcaat ggcctcaatga gcaatgggaa atgatagtca atcaacaaat aaagataccc 60
 tttctatataa gaggcctattg tgataaagat ttatatgata tgatccctat ggaagcaggg 120
 cacattttgt ttggttagacc atggaaattt gacaagaaaag caatccataa tggctcacc 180
 aatgaatata aatccctata tgaagaaa aggtcacc tggctcctat tggctcctat 240
 aataaacaag aatacccttt aatccttaag gaggaagtga aggaatgaag tggctcctat 300
 aagaatattag aataagaagga aa 362

<210> 17351
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17351

ttgtggcaaa cttcactgca gaattcataa gcttggtatg tgctaaattc cctgtcaagg 60
 tacctcaaat agtggacaga aaatttttct tcaactgtggg gctagggact aatccttgcc 120
 ccanaaacac aacatgcaca gggccaagta ataacaccaa atttgcagcc tcagtgaaca 180
 acattttcttt tgcacttcca tcactgtttt ccactcatgca ggcatactat tctagccagg 240
 ccaatgggggt ttccaagact gattttcctg ccaccctttt gaaccccttc aactacacag 300
 gaacacctcc aaacaacaca atggtcacca atgacacana gctgggtggg ctcaagttta 360
 acaccagtgt ggagttgggt ctgcaggaca ctagtattct tggagctgag agccatccct 420
 tgcactttca tggttatgac 440

<210> 17352
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17352

gaaattaaag atattcaaca tggatgatca agattgtttc tagagtctta ggaagggtat 60
 attacatagg aagggaattc ctatttgaag tatcaaaagg ttgggccaag aaatttaagt 120
 taaaaagctt tattcaagag atttactctc tggcatcaa taccagagg atgtaatcga 180

ttaccactgg ccaaaagatga ttacacaacag ctattaaaat ttgaattcaa aattttgcaat 240
 ggtgaatoga ttacacatat atggtaatcg attaccagca gttttctgaac attgtaatto 300
 aatgtttaga gotttgaate gattacacac atactgtgat cgattaccag aggagttttt 360
 caataaactat cctcaacagt cacaatttat tacaattttg ttaatttggc ttcacacccc

<210> 17353

<211> 17353
 <212> DNA
 <213> Glycine max

<400> 17353

agcttgttca ggaattatct gtatgggttg gatgttgaat tctggttgtt cctgggtgttg 60
 aatgatgggt acatgtttgt gaaccagaag cggaggttct ttttggtag gaagccatgg 120
 aaaaacagag cgttttgaat gatttctgtt atctcagaaa actattggga aatgctgggtg 180
 aaaaacacgaa tgcacagaaa atataaattt gaatgaggaa tgtagagggc cgtgtgaagc 240
 aacgggtcgaa tttgccttgg ttcagttagt aaagtgttat taatgttaag tgattcgttt 300
 gggcacgttc agatatacgt agttgtctaca attcctctag cagacaaatg cccagcttgc 360
 ccttcagttt ttcaaaactga tttgcattca aag 393

<210> 17354
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17354

tgttttgaac atgttgcacg caaacttgaa cagcatcatg tactctcaca aagtaccatt 60
 ctttgcctat caactccacc agaccggatc tagacaaggt aagcagaact tctggacttg 120
 cattggatat tgcattctgc aagaagaata agctcaagtt ggttgggtgga gacattgcaa 180
 acctgtggcg attatttcaa gaattctaac agtagttgaa acttttggta cttattctac 240
 ctgaatgtct cgttaatttg actcctgata caagctcttc aaagccctaa cagcactaga 300
 atctatgtag gtcacagctg cagcatcac aagtcataac cacaatgata caagaaagta 360
 gaattatcat cattatccct tcat 393

<210> 17355
 <211> 387
 <212> DNA
 <213> Glycine max

<214> 17355

<215> 17355 17355 17355 17355 17355 17355 17355 17355 17355 17355

aagaaaagaa aaatcataaa agacagtgtg caataaaaaa aatcaccttc attacatgca 120
 tcaacttgaa caaccatgca tgtcttgaag aaggaagaac tggcgyaate ttcattttct 180
 tccagtccat gctaactaaa tcagttgatg ctgaataate cctgataage acatcaatat 240
 ttgtactct attcttaaca ttctttttct tctgagtttg atcaatcacc tctccttttg 300
 cattattttt caatgcaate ctcttatcaa gactcaatcg tttggccttc ttattctggc 360
 ttctaaccac attatcacia ttccat 387

<210> 17356
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17356

ntaattgana ttaagttatc taattatgta agttcttgat ttaatcccta tttctctctc 60
 ccttttggca tcaacaaaaa gccaaagtgc ataacacata taaaacatac ataaatgact 120
 aatcatacaa gacattttatt gaaaaatcta aaccgatcat gaagcaaaaa acatgaaata 180
 tccaaattaa aatataaacc acataatcat ataacataat ttatagatgt tcagttatag 240
 taagcaaaata gtaaaagaaa tactaaatgt tcaaatgtca taatattaca gatcatttgg 300
 ataagtcact agcatctagc agtcttaatt ctctttctaatt gttgaagaag gaatctttat 360
 ttagtgtcta tgagaagatg tctgcaagtt gattttttagt atctacaaat tcataacaac 420
 atcacctggt agaatatgat ctctaata 448

<210> 17357
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 17357

agcttttotta agaagattcc taaaaaagct agagcttagc tacacatacc tttctaataag 60
ctaagctcac ctcccttgaga tgagaagcta gatcttagct acacaccccc tataatggct 120
aagctcaccc ccatgacaaa aaacatgaaa atacaaaaaa aattccttac taaaaagact 180
tggctcagac gaaggaaaaa cctattctaa tatctacaaa gataaggggg ctctacttta 240
tctctggggc tctgactata ccttaagggt tatgagaaac ctagggtctt cctctgatac 300
tctagcccaa tctacttgga gtcttctacc c 341

<210> 17358
<211> 424
<212> DNA
<213> Glycine max

<400> 17358
tgttgaagga gaatagataa ggagtttatg aagaggttgt ggtaaggga gtgtttggga 60
aggaagaact ccaagacaaa atcaaatgg ggataagaag aagtccttag aggaatagcg 120
acggcagaat gcaagtcaaa gatgttggcg tggtagagaga gaggatatto ggctttgggtg 180
aaggcgggta tgtccatagc aaaacagggc ttggcagttg tgaaggccgt accgacaatt 240
cctttctcgc ggaaaaggtg gtgctgagag catgcctcct ggaaccccaa tagctggggc 300
tgaccatccc ccacaaaaca cgctctgtcc acaatcgaca catagttgtt ctcatcctt 360
gaatgcccac aatccacaca tagttgttgg acgcaaggag cccatgtcag atgccaaaggc 420
acat 424

<210> 17359
<211> 453
<212> DNA
<213> Glycine max

<220> unsure at all n locations
<400> 17359

tctttgagaa aacttccttg agatgttaga gcttatctac acacacccct ctcatgacta 60
agctgacctc ctgagaagc tctcttaaga agattcctaa agaagctaga ccttagctac 120
acacaccttt ctaatagcta agctcacctc ctgagatga gaagctagac cttagctara 180

caacccctat aatagctaag ctcaccccta tgccaaaaaa acatgaaaaa aacaaaaaaa 240
 gtggttgcta caaagaactac tcaaaatgcc ccgaaatata aggcataaac cctataactac 300
 tagaatggcc aaaatadaag gcccaaacga aggagaaaac tattotaata ttacadaaga 360
 taagggggtt aaatgttggt ggaaggggtt ggaatgtggt ttgaggttga tttatgtggt 420

<210> 17360
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17360

agcttaataa atcaatctat ggcttgaagc aagcctctctg ccaatgggtat ttgaagtctc 60
 atgatgttgt caattcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120
 aggtcagttg gagtaagatt tttttcttctg gttatacgtg gatgaacattt tgccttgcaac 180
 taatgataag ggcttgcctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240
 ggatattggga aatgcatttt atgtcatttg cattaagatc catagggaaa gatctcgagg 300
 aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagaa ttaacatgaa 360
 agatgttcac caagtgtagc 380

<210> 17361
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 17361

ttctatgca agcttataat atatcgatac gctcgaaaatt aaacattgga aactctggg 60
 aattcaaat agtcataact ttccacacgg atgtccgatt cgggcgcata atatgtcgag 120
 aggtcagaaa ttgaacaacg caagctctctg agaaattaga ctggtataac ttccacacg 180
 gaagctctcg tgaagtcctat atggtcctaa cttttcacac tgaggtccga ttgatgttta 240
 taatatatcg atacactcga aattaaacat cggaaaactct gttagaaattc aaatggctat 300
 aggttttcac aaggatgtgc gactcggggc catgatatgt ccagagggctc gaaattgaca 360
 aacggaagct ctcgagaaat tcaaatgggc ataact 396

<310> 17362
 <311> 467
 <312> DNA
 <313> Glycine max

<400> 17362

17362 17362 17362 17362 17362 17362 17362 17362 17362 17362

ttagtttcca tccctctcag atattatcca ccccaattcc acatctatat aaaaagtcac 120
 gttcatttga attctctcag agtttgcgat gtttaatttc gagcgtatcg atatattata 180
 accctgaatc ggacctcagt ctgaaaagtt atgacctttt gaatttgacy agagcttccg 240
 ttgttcaatt tccaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
 ttatgacctt ttgaatttct caagagcttc cgtgtgtcaa ttctgagcgt ctcgatatgt 360
 gatttgcttg aatcggacat ccgtgtgaaa agtatgtcca ttggaatctc tcaagtgcct 420
 cgttgatcca atttcgagcg tctcgacata ttatgcgcgc gaatcgg 467

<310> 17363
 <311> 390
 <312> DNA
 <313> Glycine max

<400> 17363

agctttcaca cccatgtaat ctctaatat ctcccacaact ttgtggggtg ggccattctt 60
 ggatggcctt gattttctca gggctcactt ggaacccatt tctaccaact acaaaaccta 120
 agaaaaactat attatctaca caaaaggtae acttctctat atttgcatag aaggtgtttt 180
 tcttaagaac agaaagaact tgtctgagat gtactaagtg atcatctagg ctctactat 240
 acaactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
 gatgcataag cctcataaag gtgcttggtg cattagtgag cccataaagg atcactatcc 360
 attcatataa accaaacttg 390

<310> 17364
 <311> 396
 <312> DNA
 <313> Glycine max

<400> 17364

actccgctgg atgcaacatg ggagagggaa tttatcacga gttgatggcg tccatgaaag 60
 qcaggatcgg atggataata gagaacacac tgaagataac aggaggagaa gagggaatga 120
 tgggtgttct aaacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
 aagaaatga aggaacacac atttatac tggatgaa atgagatg tttatcctga 240
 tcttctctgg tgaacaaacc taccaaacca gaaacaaaga aatcaaacac caatcttga 300
 taccatggag gagatgataa atatcatgac gaagcg 366

<210> 17365
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 17365
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 atgacatctt ctttatecgt cattggaggt gccacttgag cttgctaggt ctctccacct 120
 ttgggtttat tatttgaaag attcgtgcc ctttttgtac atgttctgta gttgtatcct 180
 atccagagcc atatcagaat tgtactgata ttgcctaacg atggcaacaa ttaggtcttt 240
 ccaagaatgg attcaggaag gttccaagtt agtttaccag gtaccccaag aagaatttct 300
 tggagagaaat gtatcagcag ttctctatct tttgcgtatg ccccatctt ccaacaatac 360
 accttttagat ggttcttggg gcaagtagtc cccttgtaact tg 402

<210> 17366
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17366
 agctcgaatc ggacatccgt gtgaaaagt atgagcattt gtttttctca agagcttcca 60
 ttgttcaatt tcgagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120
 ttatgacctt ttgaatttct caagaggttc cgttgttcaa ttccagagct ctcgacatct 180
 tatacgcctg aatcgaacat ccgtgtgaaa agttaagacc atttgaattt ccaagagttt 240
 ccgagtgtta attccagagc tategatata ttataagctt gaaacggaca ttccatataa 300

aagttatgac catttgaatt tctcaagagc ttcgctgtt catttcgagc cttcgacata 360
 tttatgogccc gaatcggaca tccgtgtgaa aagatatgac catttgaatt tccgagaga 413

<210> 17367
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17367

atcttcaact tcaattatga gttgagcagg taaaaaagat tegtcttcaa actcttagag 60
 gtagctatga gtgtttgttt atggaggagt ccgagtcgat tcatgattat tttctctgag 120
 tattggccgt agtcaatcaa cttaaaagaa atggtgaaga tgttgatgag gtgaaggtta 180
 tggaaaaaat acttcgaact ttaaatccaa gttttgactt cattgttacc aacattgaag 240
 aaaaacagga ttttaagacc atgaactattg agcaactcat gggttcotta caagcacacg 300
 aagaanaaca aaagagaaaa attaaacaaa aggaggttac ggagcaacta ctccaactca 360
 acgtanagga agcaactat gcc 383

<210> 17368
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17368

agctcncaac ttaacttcaa tgaacaacct tcttgttaca ttatttgaaa tctttgaagg 60
 taattttaatt gtcaattaca aaagtacata aaggctctca attttgytgg ttgtctctctc 120
 tttgatgatt cactcaattt ggagtgtctt ttagttcaat agcttttaag gtgggttgccc 180
 cctcgtctct tgaattgaaat tcttcaatgg atgacatcaa tcttcttttc caattcccta 240
 tatggaaact cacaacaag aaaacaaaga gacaacaat aaccaagac caaaaaatta 300
 aatgaaggt aaaccaataa atttttaaca agaaaaattt tcaaggatta ttgcacaatt 360
 aaagcaatga aaaggacata gaagcaagct aggactcaaa gagaaactta gaatgactct 420
 agagtag 483

<210> 17369

<211> 351
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17369

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 ttggagttgt atagatgctt gggcacagga tggccttata cgaagaggta aacagggtga 120
 tggtaaaatt ttttaagggtt acaadagttg taacttggct atgtgtatgt ttgttaattg 180
 ttgtattgac atgtatgcta agtgtggaga tatgaaatca gctgaaaatt tgttcgagat 240
 tggctctatg agggatgttg taacttggaa cacattgatt actgggtttg cacaaaatgg 300
 caatugagag gagtcactgg ctgttttccac aaagatgata gaagccaaag t 351

<210> 17370
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17370

 ctaagcttgt ggaagccttg agcaacaaac tgttgggttt ttggcaagct ttgaagacct 60
 agccatcgta aaaaaaaaaag gtatgattta tcattgtttt gtttgcagta gtggccatgc 120
 tctaacgagt gcgtacaaaa gttatcttca gttgatctaa catgttttgt ctgtggagca 180
 ttgattcttc aagggaatga atgggtgggg acccttgaac gtagtcaaga agggaagggt 240
 gatctcgaca atacaaagca cgaaagggtt aatgttgatg gccgaatggg aggaagaatt 300
 gtaaccaatat ttgacgaggt gaaggtaact gtaccaagat catggatgtt ctccaacaaa 360
 acatctcaat taaacctcan aactgggatt agtgacttca gtttgggttg ctaa 414

<210> 17371
 <211> 235
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17371

 ttgctttgaa ataaaaaatt gtaggttggt caaggggttg tggtagtgc ttatttnttg 60
 agaaanatat agaactttgt ttttatatgc agcaacctgc agcaattgac cagcctgaag 120

ettattgctg ccatatttac aatagacctc ctcaacctca gcagcaaat caaccacagc 180
agaaccattg tgacctttcc cygcacagat acaaccttg atggacgaat cacc 235

<210> 17372
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17372

agcaattctt agagaatcgg catgatatgc gctctaaata caatatccgn genatttttag 60
aagcngcatg taacttgatg gctaaggctg caatgacaag aaataaaatg attttgctca 120
acattcaaaa tgatgtggca caatatctcg agatgtgcta caaggatgca tctggcttt 180
ggcatattca atttgggcac cttaattttg gaggattata gtttctctcc aagatagaaa 240
tagtgagagg attgtcttgc aatagtcacc ttgatcaagt gtgtgaagga tgtctacttg 300
gcaagcaatt taagaaaaac atttcaaagg agtctaactc aagagctaaa aaattgttgg 360
aacctatgca tatagatgtg tgcagttcta tccagccgta gtcacatgga 410

<210> 17373
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17373

agttttetaat gngnncataa tgattgcaga agcatactta gttctccga aatcctcctg 60
caaaaaactgc agcataatgt ctgtgtgggc tgtggttctg aagaagcttg gtaaatctca 120
acaaaatttc tttagcgcca ggtaaccaat cgatggcagt ctccaaatag ccatttgta 180
tatcagtcga ctctgcaagc ataggcatgc aataaattga gtgcatttat gaattcatgt 240
tatatggaaa atcacgttgc aacatcagtt agtataatat ttatagatat cgtctttaat 300
ttcatgttaa gaaattgatt ttgaatacac ggtcaatttt gagttcaaca aaaaaaaaac 360
atcaaaaaat aaattacttt act 383

<210> 17374
<211> 383

atcactaaca atgct

375

<210> 17379
<211> 365
<212> DNA
<213> Glycine max

ttcttaccat tgcacatdgc tcatdcaaca attcatatcc ttggctttac gagacatcc 60
ggcgatacaa agacagggtta accatatctc gectgegeta attgttccat gctatctgta 120
ggacactcat tgatcctgtg aagtctgatg acctgtacaa tgaggccgca gccataactgg 180
gccagtttga catgatatto acccctatgc tttctttgac atcatgatta acctgataga 240
gcatctgtgc agagaaacca aacgatgagg gectgtttat ctatagagga tgtaccgggt 300
aaaacgatac atgaagagcg taaaagggtg caccattaat ctatatcgac tacacacatc 360
cattcg 365

<210> 17380
<211> 384
<212> DNA
<213> Glycine max

<400> 17380
agctttacac gtatcattta agtgtatgga ccatatcgta gccaaaggtgc tcatcgataa 60
tggttccagt ttaaactgta tgctaagag cactttggag aaattaccat tcaatgcctc 120
ccacctaaag ccgagttcaa tgggtggttcg tgccttcgac ggcacccgcc gagaggttag 180
gggacagatc gacctcccag tacagatagg ccttcacaga tgccaagtta ccttccaaat 240
aatggacatt aacccccctt acagctgtct gttgggggtgt ccgtggatcc acctagtggy 300
aattgttccc tctacacacc accaaaagtt gaaattcgta gtggaayggc atctggtcat 360
cgtatcaggc gaggaagaca tctt 384

<210> 17381
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17381

agctttgtga agctcctggt ttatctttac cagattttac tcaaccattt gaagttgaat 60
 gggatgctag tggaggtggc attggggctg ttttgataca aaacaaaagg cctatagctt 120
 atttctcgga gaaattggga ggagccagat tgaactattg cacttatgac aaagagttct 180
 tctctctctg tctctctctg tctctctctg tctctctctg tctctctctg tctctctctg 240
 tgcatttga tcatgagttc ttgaagtata tcaatgggca gcagaagttg agtccaaaggc 300
 atgtttaaag ggttgaattt ctctaatctt tcaattcttc ttcaaatatc agggatggta 360
 agagtaattgt ggtggctgat gcactt 386

<210> 17382
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 17382
 tccacccaaa tcaaatgata ataacttttt actcggttgt cccaatgaat accgtattat 60
 atcgagaggt tccaaattga caacggaggc tctgagaaaa tccaaacgac aataactttt 120
 tactcggatg tccagattgtg tcccatagta tatcgagatg ctcgtaattg aaaccggatg 180
 ctcgtagcaa attcaaacga caataacttt ttactcggat gtcogaatga atcccataat 240
 atatcgagac gctcgtaatt gaaaacagaa gctctgagca tattotaatg acaataactt 300
 ttactcggga tgcagattg agtcccgtaa tatatcgaga cactcgtaat tgaaaacaga 360
 agctctgaga aatatctaac gacaattact ttttactcgg atgtctgaat gaatcccg 419

<210> 17383
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17383
 agcttgttat caaagtacat gaactatgct agtagaatc attttcaggc agcaaaaaaa 60
 gctcttagat atgttaaagg cacaattgat ttgggaataa gataccatta tgttaaaaac 120
 ttcagaactc atggttatcc tcatagtgat tgggctggat gtgctgatga tatgagaagt 180
 acttcaggtt atctttttac ctctgggtct ggaattttct catcttatcc aaagaaaacg 240
 gaagtaataa ctcaatccat agcagaagca gaatatgttg ttgcaactgc tgcctgtaat 300

caagctctct agatcagaaa gcttatgaca gaattgcata tggaacaaca agacaatacg 360
 caaatatttg tggata 376

<210> 17384
 <211> 376
 <212> DNA
 <213> Glycine max

<400> unsure at all n locations
 17384

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 catccagcag aggtatgttt acctctactt ttctaaatgt ttc aaagatc tctttctatg 120
 cctcttccat ttttttggtg gaaattgctc ttggagggaa tggaagaggg atatgtgtct 180
 tctctttaga ttcacctgga tagaaattgt taggtaactt acctcttaa tttttgctat 240
 catctttttc tggagtagag tgaggttggg caggttcatt ggtggatgag gaagatgcta 300
 ctggttgagg tcttgacac tgccttctctg acctcaatgt aatgacactc acattnttgg 360
 gattctggac agattgagaa cgtaatctat cagaattctg ggactgttgt tgat 414

<210> 17385
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17385

ttctgcttta tatggttaca aaccaatcaa caacaatccc ttgatggcag gtgatacaac 60
 agttgaagca gtagactaca ccatcaggac tggagaggaa attgcaacaa ttttacacaa 120
 gaatctcagg aaagcacagg agaggatgca gtgtatgtct aacaagaata ggacaaacaa 180
 agaatttgca gtgggagatt gggtatattt gaagttacat ccatttaaac aacagtcaat 240
 acctaacaca gcgtttcaca aattagttgc acgattttat ggtccttaca gaattgtaga 300
 gagagtgggg aaggtggcat acaagctaga cttaccagct caagctcgca tacataatgt 360
 attccacatt tcttgg 376

<210> 17386
 <211> 484
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17336

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tctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
ttcttaacaa ctcttgggga aacaccttga aatctataga gagttcatct aggaatctca 120
aattttatta tctctctctaa aggagagaaa tcttttttgt catctcagaa aatcaattgt 240
aatcaataga ctggtttgtct ctggaattgt gagtttctctg aacacaaggg aaagggatct 360
ctcaggtgtt cagatgttgt aaaaagggtt ttacaaaagtt agtgaaaatc tcaagtgggt 480
tgcttgagga ctggacgtan gcacgggaag taacccaacc agtataaatt gagtttgcct 420
ttct 424

<210> 17337

<211> 427

<212> DNA

<213> Glycine max

<400> 17337

agctctctaa tccatataaa ccataccatg ctcttaacat gtaatattgt ctccagccat 60
catttggaga gctagtgcac atctttctct atttactaaa tcatctatgt aacatctgta 120
acaatttacg gacgtataat gctgccactt aacatgacat ctgatgatga accaatttac 180
gtaaatgcta agcagtacca tggaatcatt agacgtcggc agtcccgtgc caaagtctga 240
cttgatcaca aattgactaa acgtcgcaag gtatgattcc tcatatgggg gtatcccaca 300
tattttttca ctcatattaa tgaacattat agtctcagct tcaactggcct tgaaaaaaag 360
taggcatgat agggttgtct ggctaactc ttgtagaaaag tgatagatta tctctttcaa 420
gcaacgc 427

<210> 17338

<211> 374

<212> DNA

<213> Glycine max

<400> 17338

agctatttta ttgataggc caccagtaat tcttgcacca gctagttaat aactggcact 60

tgaagcatca ccttcaacaa aagcattgcc aggagacctt ataggaaaca tgagtcttaa 120
 tttcattgca ttttggatac taaaagtgat gtaacactaa aacatagaaa cctacttgta 180
 cttttgacct ccatggacca agaacctatc ccaattacca ctgtgttcca agaaaactcc 240
 atttcaatt ttcacatcac caagaacctt aggagctgcc ataaacaaa agtcaagta 300
 ttgattgcta atg 360

<210> 17389
 <211> 407
 <212> DNA
 <213> Glycine max

ggcctcttga ttgaagagg ctgaactctg cggatttcgt cgagagctta tttgaacctc 60
 tcaagtgtct ccatcatctc ttgaactcc tgcgcctcca tcagcgtcca cgtagtggga 120
 atccccttcg ggggcgtctg ctgcgcctc ttgaactcc ttgtacgcc tgcgcggag 180
 ccgtatccga agtcgccgat ctccgaatcg aataatgacc aatgctgcca ggaaccattcc 240
 tgggatgaga acgctaattc gcagaaaggg tcgtcaatct cctgagataa cgaatccctg 300
 actggtctcg aaacgtctgc gattatagag gacgatcccg attacgtacc cgagaggggt 360
 cctttgtctg tggcgtagcg gcggacgac attttacatg gagatcg 407

<210> 17390
 <211> 406
 <212> DNA
 <213> Glycine max

tgggtctaga catgtctata gcattctcat gagctagttt atataaggag ttagaaattt 60
 tgttctctc tctataaata tgagaacctt gttggattaa aataaaattg gaaaataaat 120
 aaagaacctt aacctatata ctatgtgac aactatataa atgataatca taacatttca 180
 attatataat cataaagaaa taaggcttga catggcttag gttgtctggg tttaaaaaat 240
 atttagattt aacaaaatta atattaatca gaaaaaaatt atatagaatt aaacaaacaa 300
 attatattt atagaatcat acaacataaa aaagtatatt tttctaaaaa tggatatagc 360

ttatgttggg ttgggtctcc gtacctagat ctgataattg aattga

406

<210> 17391
<211> 379
<212> 01
<213> Glycine max

<223> unsure at all n locations
<400> 17391

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ccatttcgta ttcctgtaac ttccaaaata gtgtagcaag agacatgtta gttaaatctc 120
gtgactcagt aatgggttgg accttagggt gccattctct acttaaacat cttaataact 180
tatttatgat atcttcattt ggaaaaattt tccctaaaga tgcaagatga tttattatat 240
gtgtaaacct ctcttgcatg tcttgtatac tttcatttga attcattcta aataattcat 300
atttatgagt taatggattt atcttagata tttccacatc tgttgtgccc tcatgtgtta 360
cttgtagggt atccacat 379

<210> 17392
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17392

ctccaaaaag aattgcaaga gtcattgttag cgagatcttt cgattatgca atngtagtta 60
cctttgggtg tcattgctg cttaaacatc tcaacacttt gttaatgaaa tcttcattat 120
gaaatatttt ttctaattgat gcaagatgat taactatatg tgtaaatctc ttttggatat 180
cttgtatggg ctcatcttga ttcattctaa acagttcata tttatgtgtg agagtattta 240
ttctagatct ctgacatca attatgcctt catgggttac ttgtagtgta tcccacattt 300
cttttgcatt ttacaattt gaaactctaa aataattcat catgcctaatt gaagaggtaa 360
ttatattttt gaccttana ttatatgaa cccctctctt ttcattctca tcccattgtt 420
ctctag 426

<210> 17393
<211> 398

<212> DNA
<213> Glycine max

<400> 17393

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atgagattct tctttggcat tgtatttttg cagattccag aagggatttt cttgtgtcaa 120
atgagattct tctttggcat tgtatttttg cagattccag aagggatttt cttgtgtcaa 180
atgagattct tctttggcat tgtatttttg cagattccag aagggatttt cttgtgtcaa 240
atgagattct tctttggcat tgtatttttg cagattccag aagggatttt cttgtgtcaa 300
atgagattct tctttggcat tgtatttttg cagattccag aagggatttt cttgtgtcaa 360
atgagattct tctttggcat tgtatttttg cagattccag aagggatttt cttgtgtcaa 393

<210> 17394
<211> 424
<212> DNA
<213> Glycine max

<400> 17394

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tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 120
tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 180
tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 240
tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 300
tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 360
tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 420
tgtcgggttc aacttcaatt aagtgcctcg gccatcctat ggactgtgcg aaaaggctca 424

<210> 17395
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17395

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acaatagcat cattttctggc actaaattgc tgggagttgg aagccatctt ctcaattaaa 120
 tttttggctt tagcaggggt catgtctcca agggctccac cactggcagc atctatcata 140
 cttctctcca tgttaactgag tctttcataa aaatattgga ggagaagctg ctgagaaatc 240
 ttttttttga aggaatttgc aatagtttt taaatctctc caaatattca ttttggctct
 tttttttttt
 tttttttttt 372

<211> 17396
 <211> 376
 <211> DNA
 <211> Glycine max

<401> 17396
 agctttctctg ttgatcaag tggcctcaga ataattaaga aggggggggtt gaattaatta 60
 ttaagctgtc ttgactaatt aaaaatctat cattcttaat gttactagat tcaattaggc 120
 ttttactact aagtcagaa agtaaagaac agaaatagaa acttaaccaa aagtaaaagc 180
 gataattaaa agtacgcagt ggaaattaaa gagtgtaggg aagaagaaga caaacacaag 240
 atttatacta gtttgaccac aaaccgtgcc tacatccagt cccaagcaa cctgcgggttc 300
 ttgagatttc ttccaacctt gtaaaatcct ttacaagcca aagatccaca tgggatgtac 360
 cctcccttgt tgatgc 376

<211> 17397
 <211> 426
 <211> DNA
 <211> Glycine max

<211> unsure at all n locations
 <401> 17397
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 tttgttattt ctacttaatt ctgcttaaca aaattaagtg tttgttagca tgacgaatag 120
 tagatcgagt caaaagtcac acactaacat catcttaatta cacatgtaat tagttattgt 180
 tgttgaactc acttctttta tataaagtgt ctgtctctat atttttatta caaaaaactc 240
 agtatttagt ttttttaatt ttaaatgtta ttggaatttc tttactttta cttaattctc 300
 tattaacttc catatttttt aaaatttttt aaatatctaa acaaaaaatta gcttaaaaca 360

ctaaattctt ctcccagaat tatcatccaa ataaaaactct cattatttta aaaaaaata 420

cccaact 426

<210> 17399

<211> 371

<212> DNA

<213> Glycine max

<210> 17399

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ttacatctct tctttttctt ttgggtttct agttttctt cctcatcctt cttatcttct 440

atagttattt gatcttttggc tacctgtgaa ggtgttttaa gatgcaaac aaactctgtt 450

ccaagatggg tgagggttat ctccattagt aggcattat agattatttt cctatgatat 460

tgcctatggcc tacctaagag aaggtgtcct gctccataa gaactacatc acaaatcaact 470

tcctccttat atgttccaat ggagaacggc actttcactc tgtgattgac tatcatctcc 480

ccttgctcat t 371

<210> 17399

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17399

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agacccaaatg gctcctaaga tgataggact gacagagacc aagaatgaag aggatgaact 500

gatgcacaca acagagcaga acaattggcg agtatgcatt gggcatagga ggttgaattc 510

agcaaccaca atagatcatt ttcccttggc ttccatggat caaaggctng accgcttggc 520

aggtaaatct cattactgct ttctcgatgg attttatggc tgttggcaaa ttcattttgc 530

tccttgacgat cttagaaaga ccacattcac ctgtccctta ggcactattg cctatatgac 540

gatgcctac aacctatgca at 382

<210> 17400

<211> 337

<212> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 17400

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ctctctcagtg gataatgaca gggcttaca gataacccc tgcatactct atagccctct 180
gaaatgcata atcacttggt gcaatgaata caggtctcat gtcagtgaca atacaaagaa 240
caggytggtc acaaacactg gggactgcat ggctcaccat ggtcagcatt totggagcgt 300
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<110> 17401

<111> 409

<112> DNA

<113> Glycine max

<400> 17401

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cttcagatgg tccagcccta agcaacaaca acagcagcct gctccttctt tccaaaatgc 180
tgttggccca agcagaccat acattctctc accaatccaa caacagcaac aaccccagaa 240
acagccaaca gttgaggccc ctccacaacc ttcctctgaa gaacttgtga ggcaaagac 300
tatgcagaa cagcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggctaccc aattgaatca acaacagtec cagaattct 409

<110> 17402

<111> 357

<112> DNA

<113> Glycine max

<400> 17402

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gggttctcta gacaaaaccc aattgatggt attaaactca acattctctc atttaaagga 180
aagaatgato cggaggccta ctggagatgg gagatgaaaa tagagcatgt tctctcctgc 240

aacaactatg aggaggacca aaaggtgaag cttgccgcca cygaagtttc cgactatgct 320
 cttgtgtggt ggaacaagct acaaaaggag agagcaagaa acgaagagcc atgggttg 357

<210>
 <211>
 <212>
 <213> Glycine max

<400> unsure at all n locations
 17403

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 ttttaccaaa gagtttttac tctctggtaa tggattacca gactattgta atcgataacc 180
 agtagcaaaa tggatttgaa aaagtttttc aactaaattt acaacgttcc aattgatttc 240
 aaaaagctgt aatcgattac aatgttttgg taatcgatta ctagtgcctt tgaaagttga 300
 aattcaaatt caaatgtgaa gagtcacatc ctttcacata aaatntttgt gtaatcgatt 360
 acaetgattt ggtaatcgat tacttgtgat tgtttatgat taaatcaaaa gatgtaactc 420
 ttc 483

<210> 17404
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 17404

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 aaactatctc ttgtaacaaa gtgatcaatc tgaattaacc atgatcaaac tatatctatg 180
 ttaagatccc ccttcaagct aggaatggat attggatatt ccttaacttgg aatacaaaaa 240
 ttgaaaagaa tcaggcagca tggccttagt gtatatgtct gcaagctcat tagcaaaagt 300
 gataggaagt aatttcacaa ttcttttatg catctctctc cgaactagat gacaatcaat 360
 ctttaatagt ttgtctctct catgaaaaac atgatatgtt gctatatgaa gggagatctg 420
 attatcacia t 481

<J10> 17405
 <J11> 317
 <J12> DNA
 <J13> Glycine max

<J14> 17406

<J15> 17407

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tggatgcaa aataattgat gcacacctgt cttgcttcag gcttttgagc ctgcaaggcc 180
tcttttgtct tttaacagcac cttctgatac acttccagtg tcattctcta caacacaggt 240
taaatgcogt tttagaatga gtgaacaata acgaagaaaa tataaaggtc aaacgtaaca 300
taataaaaagc atgatgg                                     317
  
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<J10> 17406
 <J11> 381
 <J12> DNA
 <J13> Glycine max

<J400> 17406

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gttgctgttg ttgttggtgc tgttgctgtt gtgaatgatt tgaccatcta aggttgggat 180
gattctctca ccggggattg tacctatttc tagagaggtc atagttgttc ttttgtggct 240
gattttgctg ctgaggttga gggggtctat tgtagatgtt tgcagcataa gcttcaagct 300
gttcaattgc ttcatattgt tgacaaaaag gcaaaagtct gtgtgggtgt cggcaaacga 360
tcataacca tatagtctac c                                     381
  
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<J10> 17407
 <J11> 404
 <J12> DNA
 <J13> Glycine max

<J23> unsure at all n locations
 <J400> 17407

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tgaattctca ttattagttt caaggttagc acaataataa atcttctcta ttacacatta 120
  
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attgtgtgtg agcatcttta ttatctttat cattcttttt tetctgtgaa ttcttaattt 180
 tcaaaactaaa ttttaacatat gccaatgtat agttttaatat ataaaaaggag aaactattgt 240
 aaaatataaaa attcaactct tacacataaaa aapaaaaaat gtgttagagat agacatatat 300
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 ttgtgttaggt aaacccaata aaatcaaacct tttactact atgg 444

<10> 17408
 <11> 434
 <12> DNA
 <13> Glycine max

<23> unsure at all n locations
 <400> 17408

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 g'angaattt g'gtgttagca caagaaactt cagttgcttg' aatttcccaa aaatctcttg 120
 cactccccca ccaaatcttat tctgtcttaa atccaagatg aacaaatggg tcaagttcaa 180
 aagggctctct gggatatccc tggagaaagt gttgttcccc aagaacaatg catcaagacc 240
 agaaatggaa ccaatttcac tgggaatatc tccagtataa ttgttaccag aaaggttgag 300
 aaccaacaaa ttcttgaggt tagcaacctc ctttgggggc ttacogtcaa attcattaac 360
 agaaaggtca agtttttcaa ggtacaatt gattggaaaa gccttggaag gaacaacccc 420
 tgtgagaaaa ttct 434

<10> 17409
 <11> 422
 <12> DNA
 <13> Glycine max

<23> unsure at all n locations
 <400> 17409

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 gggcaaaaagt ctcatcatta gccaatccat attggtgctt atttccaagg acaactaaac 180
 gagctttgta acgatctatg gatccatccg agcgcagctt tatagagaac acaacttgc 240
 tacttaaaag cttaacagat gtgggacacg ggaatatc caatgtttga tttcttcca 300

atgctagaag ttcagtttca atagctntct gccacaaga attcttcatg gcttggtat 360
aagaggaagg gataggaata aaggataatg aggtgtcat ggaatggata tacctgtctg 420
gg 482

<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17410

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gcttagctac acacatcccc tataatagtt aagctcacc ccctgcaaaa ataatgaaa 120
atataaagaa gtccctaata caaagactac ttaaaatgcc ctgaaataga aggtataaac 180
cttatactac tagaatggcc aaaatacaag gcccaaaagt agggaaaaacc tattataata 240
tttacaagaa agagtggacc caaccttggc ccctgggacc aaaaatctac cctgaggttc 300
atgagaatct tanggccttc tttagcagct ctagcccaat ccttttggag ccttctatct 360
aatacccttg gggggtagga ttgcacana gtgc 394

<210> 17411
<211> 337
<212> DNA
<213> Glycine max

<400> 17411

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gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
ctatcttcac ttttttactc aagttatgaa ttcccttaat gacaatcttc ttaaatatta 180
attcaaacaa agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaactcag ttttatactg gtctgaccac acccttgtgc ctacgtccag 300
tcccraagca acccgttga gagttccact atcttgtaaa ttctttttac aagatctaaa 360
cacacaagaa caatcttcc ttgtgt 387

<210> 17412

<211> 394
 <212> DNA
 <213> Glycine max

<400> 17412

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 aaaaataga aaattcattg gaaatcattg aaatcattg aaatcattg aaatcattg 180
 tttttaaagat aaaggagtta gggcaataa tgaattcca agagaatgga aagctcgaag 240
 aaatcattcc ctgcataaca ttattggtga taaatcaaaa ggggttaaaa ctgacattc 300
 tttttaaagat ttatgcaata aaatggcttt tgtatctatg attgaacctt aaaatataaa 360
 aagaagcata ctgagtgata actggatcat tgct 394

<212> 17413
 <213> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17413

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 aggtagtcac gaagaagacc ggctcacag tgataaaaaa tgagaaggag gagctgattc 120
 ctactgggtt gcagaacagt tggagagtct gcattgacta taggaggctg aaccaagtta 180
 ccaaaaagga ccattttccc ctaccattca ttgaccagat gcttgagcgc ctgacaggta 240
 aatatcagta ctgtttcctt gatgggtttt ctgggttatat gcaaattact attgctcctg 300
 aggatcagga naagaccaca ttacactgcc cctttggcac ttttgccat angaggatgc 360
 ctctcgggct gtgcaatgcc ccttgc 386

<212> 17414
 <213> 401
 <212> DNA
 <213> Glycine max

<400> 17414

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 gagatttcag atggacttta atcccaatcc caatgcagac ctcttcacga gatctcact 120

taacattttg gttaaatgat cggccaaatt atgetgagtt ctacaaaact ccactgatat 180
 cacaccatgc atgattaact ccgaaccat gttgtgtcta acaccacagt gtctagactt 240
 cccattatac atttgactat atgcccagc caaagttgac tgactatcac acctgataga 300
 agcttcttta agagtgctg ctadagctac aaattcatat tc 400

<310> 17415
 <311> 413
 <312> DNA
 <313> Glycine max

<400> 17415
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 gctttccaac tgattgttgt accaaacaaa gtaaacacat atcctgttaa ggatttccct 180
 gtgtctacat ttcctgcaaa atctgcctct acatatcctg tgattgctgc ctcatgtgct 240
 gtctctctgt accttaatcc agctatcaaa gatccatata gatacccttag tgttcacttc 300
 acaacttccc aatgcgcact gccagcctct cccatgagtc tgcctattat acttacaaca 360
 tgagccacgt caggtctgct gcaaaccatt ccatacatta tgctttacac acc 413

<210> 17416
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17416

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 taaacgagat gagaatttgc agaagcgaaa ccttcttggt gtgcctata gaattcctct 120
 tgaatggtaa catctagaaa agcattgaig atgtccactt gtccgggtatc ccattttctg 180
 gtgactgtaa tgcctatgat tgtgcgaata gtggctggtt taataacagg actgaatgtc 240
 tcaattgaat caagcccttg cctttgagat aacctttaag ccactagtcg agctgtgtgt 300
 ctgacttcag agccatcacd atgtatctc aagcaataga tccatttggg gccaatagcc 360

ttcttta

366

<210> 17417
<211> 430
<212> DNA
<213> Glycine max

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taaacatca tcatacttta ctagttaaat tttctccatc acgcgaagga agtatccatt 120
ctcagagaaa gatatggcag ttactggccc agcatgtccg tcaaacctag caacatttgc 180
tcaaaccaa tggaggaagg taagaacata gagaataaca ttgaatatta aaattgaact 240
tcaaacagt ataagaaaaa atgtttacct gactttttac atcccaaatc ttgacaagag 300
attctgtggt gcgcgtttcca agaattgagc cctccggatg aaaagccgca gatgtgtacc 360
ctccgaaga acctgaagtg tcataaacct acacaactca tcattaattg ctgattccag 420
aaattatgta 480

<210> 17418
<211> 399
<212> DNA
<213> Glycine max

<23> unsure at all n locations
<400> 17418

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agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120
ggaagcggta tgtgccggct agttaactca gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaatattga agaagatgag gaggttaacta tggetcgatt tcttaatggt ttgactaatg 300
atatacatga tattgttgag ctgcaggagt ttgttgaaat ggatgaattg ctccacanag 360
caatccaagt agagcaacaa ttaaaaagga aaggagtgg 399

<210> 17419
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17419

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 ctggaatgaa caatctcttt atgaagaccc tctt aaggtc attcagcttt aaaatggatt
 ctgagaagat atgatctctcc tggacattag ggugcttcac gctggaacaa aaaatatgaa 240
 actccttaag atgcttataa ggatcttcac ctgcaagacc acgaaacttg ngcagcaaat 300
 ctattagctc agctctgaga acatattgaa caccctcacc aggatattga atgcacaagc 360
 tctcataagt gaaatcaagt gcatccac 389

<210> 17420
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17420

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 ttttaattca agattgaaat tatttcctgg taagttgaaa tccaaatggt ctgaaccttt 120
 catcatcagg aaagtctggc cttatggtgc aatagagttg tatgatccac aatttcagga 180
 ccttgactga acatggttgg tgaatggcca aagattgaaa ctgtaccatg gtggagagtt 240
 tgaaggaggca aacaccatct taaatttgat ataaccatt gaggtatatg cgtcaggcta 300
 atgaogttaa aagagcgctt cctgngaggc aaccaactc tgatttcttt cattntgttt 360
 ttcatgcatt gcataagttg gaatttgctn tatgatcac ga 402

<210> 17421
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 17421

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 tctcagagacg ctgcaaatgg aacaccgaat ctctgagaaa attcaaacga caataacttt 120
 ttactcggat gtcagattga gtcagaaat atgtcaagat gcttgaaatt gaagacaaaa 180

gctctgagcg aattcaaacg acaataaactt ttactcggg tgtgtgactg agtcccgtaa 240

tatatcgaga cgtccggaat tgattatcga agctctgagc aaattcaaac gacaataagt 300

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<210> 17422

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17422

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agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120

ggggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180

aggaacaacg ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tggatttctt aatgggttga ctaatgatat 300

ctgtgatagc tgcangaagt tgttgaaatg gatgatttgc ttcacaaagc aatccaagtg 360

gagcaacaat taaaaaggaa gggagtggct aagaggaagt ttaccaactt tggttcttct 420

agtttga 427

<210> 17423

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17423

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atttatgttt tcaaggggaa tacaaccttc acttggatgt caaaaaagca ttgatagtc 120

actttttcga cctgtgaggt gaaatacaca gcagctactt cagtgttttg tcatgcagtt 180

tgctttaaga atttgthaaa agagthaggc atgtcacaag aagagccaac caagatcttt 240

gggcacaata ggtcaggaat tgcctagaca aagaatccag tgttccatga tcgaagcaaa 300

catattgata cctgtthaca ctacataaag gagtgcatag caagaaagga tgtacatga 360

gaatatgtga agtttca

377

<210> 17424
<211> 361
<212> DNA
<213> Glycine max

<400> 17424

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attgcataga agggaagaag gatgagtggc ttctagactc gggatggggc aaccacatga 180
gtagttaaaa ggaatgggttc tcagaattgg atgagaactt tgggcacaat gtaaggctgg 240
gtaatgatac tcaatagctc gtgaagggga aaggtagtgt ttggatggtt gtgaatgaga 300
ttatcatgtt aatcacatat gtatattatg ttcttgaact caagaataat ttattgagta 360
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<210> 17425
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17425

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tccatgctat atgtagcaaa gtcattgac cttcaagtt tgatgagctg gaaaatgagg 180
ctgcaattat actgtgcccag ttggagatgt attttcccc tgttttcttt gacatcatga 240
ttcaattgat tgtgcctctg gtcaaagaaa tcaaatattg tggctctgtt tatctacggt 300
ggatgtaccc ggttgagcaa tacatgaaga tcttanaagg gtatacaaaag aatttatatc 360
gtccagaagg atcta 375

<210> 17426
<211> 430
<212> DNA
<213> Glycine max

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 cgaaattgaa tgttgaagct ctaagcctat tcaaacacaa ataacgtttt actccgatgt 300
 agattgagtc cgttaagctt ctaagcctat tcaaacacaa ataacgtttt actccgatgt 360

<211> 17429
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 17429
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 aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg ggtaaacaag 180
 cttcccaagt ttttaagttc ttctcaaaa ctgtcctaag caaagttccc aaagtcctat 240
 taacaacttc cgtttgccca tcggtttgtg ggtgacaagt ggttgaaaat aacaatttag 300
 tgcccaactt gctccacaaa gtctccaaa aatggcttaa gaacttagag tccctatcac 360
 taacaatgct ccttggcaaa ccatggagtc tcacaatctc ctt 403

<210> 17430
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17430

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 caacgttcca attattttca aaaagctgta atcgattaca atgtttgggt aatcgattac 180
 cagtgccttt gaactttgaa attcaaatc aaatgtgaag agtcacatc ttccacacaa 240
 aagctttgtg taatcgatta caataattg gtaatcgatt accagtgact gttctgata 300
 aatcaaaaaga tgaactctt cacaagctt ttgacttint caaatttgtt ttaagttgtt 360
 ctaaaagtta taactctct aaatggtctt ctgactaga catgaagagt ctataaaaac 420

aag

423

<L10> 17431
<L11> 354
<L12> DNA
<L13> Glycine max

<L23> unsure at all n locations
<L40> 17431

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aacgcattca cctgtccott tggcactttt gtctatagga ggatgcoott tggcoctatgc 120
aacgcccotg gtacottcca gcggtgtatg ctttagcattt tcagtgattn tttagagagt 180
tucanagagg tttttatgga tgattttact atttatggat cctcttttga tgcattgttg 240
gtatgtctag atagagttct caatagatgc attgaaacta accttgtgct aaattttgaa 300
aaatgtcact ttatggtaaa acaaggtata gtcttagggc atatcatttc tagt 354

<L10> 17432
<L11> 407
<L12> DNA
<L13> Glycine max

<L23> unsure at all n locations
<L40> 17432

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ttaagtgcag atgtccaaat ctttgatgac atattttgac ttcattctct tgggagaata 180
uacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcttttgatc 240
tgetgccttt cattagaact tcactcttct catttgcac taagcattct gaectttgtga 300
agtttadatt gaatccttca tcaacagct gactgatgct gattcaagtt gtagtcagtc 360
ccttaccag cagtactttg tccagactat gaagtcacac atggact 407

<L10> 17433
<L11> 413
<L12> DNA
<L13> Glycine max

<L40> 17433

tgccttggtcc cttgatatat ttgatggact catggtttct atgaatgaca aattccttgg 60
 gataaaggta gtgttgccat gttttcaaag cccacactaa ggcaaacaaac tctttatcat 120
 aagttgaata gtttaagggtta ggaccactta acttttccact aaaataagca attggatggtc 180
 atttttggg gtttttggg gtttttggg gtttttggg gtttttggg gtttttggg 240
 atttttggg gtttttggg gtttttggg gtttttggg gtttttggg gtttttggg 300
 tgaaggttc ctttgggttc tctccccatt tgaacccaaac atttttcttg agcacttcat 360
 tttagaggtgc tgcgaatgtg ctaaaatcct tcacaaaatcg tctataaaaa ctt 413

<210> 17434
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 17434

ctcagettac catcgatggg acaatggtac cctttgactc tcaacagacc cagaattctg 60
 acaagctgcc ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgaggt 120
 cgggaaaaca gtgtcaagga cctcaaccgg tagcaccttc ctcactctgca aatgaacctg 180
 ccaaacctca ctctactcca gaaaaagggtg atgacaaaaa ttacctaac aatttctgtg 240
 caggtgaate ttcttcacca ggtaattctg atttgcagaa gcagcacatt cccctcttc 300
 cattccctcc aagagcagtt tccacaaaaa aaatggaaga ggcagagaaa gagatcttgg 360
 atacattcgg aagagtagag gtaaacatac ctctgctgga tg 402

<210> 17435
 <211> 360
 <212> DNA
 <213> Glycine max
 <400> 17435

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 aacggtcgtt gtctgcagca agggagagca ggggaagcggc ttggtctgaa cgttcttcca 120
 aggaagcacc ggagagaaga atggcgacct gtccccagat gatgcagaga atgggctcgt 180
 ttccggcgat gggagggagg cccaggtact cgtctgtagc ctctctgggg gaggcacgtg 240
 ggaagctcgt agaggtcgtt gctgttcttg ggggcctggc ggaatgaggg cgcacaactc 300

ttcagtttgg atttcagctc cagacattcc tgcgggaaat tctggctctc ttcggcaagc 360

<210> 17436
 <211> 374
 <212> 41
 <213> Glycine max
 <400> 17436

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 ccaatgggac aaggatgcat gggagatcct gaaaaccaat catgaaggaa cctccaaagt 120
 gtagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180
 agaatgtatt catgaattcc acatgaacat tcttgaaatt gccaatgctt gcaatgcctt 240
 gggagagagg atgacagatg aaaagctggt gagaagatc ctcagatcct tgcctaagag 300
 attgacatg aaagtcaatg caatagagga ggcaccaaac atttgcaaca tgagagtaga 360
 tgaactcatt gggt 374

<210> 17437
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 17437

tagaacccta gcttatgcta caaacattta taatacaacc cctcagttagc ttaaccaaca 60
 atagcagaat aattatgac tttcaagcaa cagatacaat ccaggttggg ggaatcctcc 120
 aatctgaga taggcaagtc ctccacaaca acaatagcat gtcctctcctt tccagaatgt 180
 tcttggctca agcaagccat atgttcctcc tctaatacag cagcaacaac aacaattgtc 240
 acaaaaaaga caatcggaac ctgaggctcc tctcaacct tctttataag agatagtgag 300
 acaaatgacc atccagaata tgcattttca gcaagagaca agagcctcca ttc aaagtct 360
 acaaatcat atggggcaga tggtactca gttgaaccaa actcaatccc aaaattatga 420
 caaatgcct tcacaaaactg t 441

<210> 17438
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 17438

tgctttctgta cagactgaga tcaacacttg tgcctgcttt atccttcgac agctttaagt 60
gagtaggtgc acgtgttctt ctatgaactg caatttccat tccgaactta tttacgatgg 120
tcttctctct cctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
tggaaaaat aagctctctt tccaaagaga ctatctgaa atccatattg cactctggg 180
tcaaatgtc aacccatttc tttcgacatc cctccaaaa ca 240

<410> 17439

<411> 423

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 17439

agaggtgtgt tgaaaccttc tttatatctt tatagttatt tgggtgataa tgattttgtt 60
tatatgtgga gactaatata gttttttttt tctttgggta aggaatgggt tttagcttcc 120
aqaattgcag tgcttgacaa cctgggtctt cgaatgcgtg ggaggaccat ggcccgga 180
gtccaccat ccaacaaacg agaactatcg tgggtcggtg atgttgggtt tgttgttgat 240
gcttgggtggc atgatggatg gtgggaaggc attgttgttc aaaaggactc ggaatctaat 300
tgtcatgttt atttcccagg tatgaatgtc tgcctttctt atgttaatta gcttatgttg 360
gtaactgttc ttttggtact tagattatga gctcgtttt ttatttttga ttaattccca 420
tgg 423

<410> 17440

<411> 321

<412> DNA

<413> Glycine max

<400> 17440

tgtaggatat tcaaacgaca ataaccttct actcctatgt ccgattgaat cgggtaatat 60
atggagacgc taaaaafaga gactagatgc tctgagcaaa ttgaaatgac aataacttta 120
taccggafa tccggttgag taccglaana tatcgagacg ctccaatctg aaaactgaaa 180
ctcttagaaa attcagacga caataactat tactcggatg ccttatagag tctcattata 240

tatcgaggga tgcttcaaatt tgaaaaaggga agctcgtatg aaatccaaac gaagataacc 300
 ttttaactagg atgttcgatt g 331

<310> 17441
 <311> 371
 <312> DNA
 <313> Glycine max

<400> 17441
 aucttctttt tctttggcca atgttggact tctttggag tgattctctt ggcaatttga 60
 tcttcagaaa tagcaatata caccactcct tcagtctgtc tgcctaggtt cttgttgatt 120
 acagcagggg agaattcaat acattttcct ctgacaaaaca ctttctgata ctcatcactc 180
 tttctgtttg ctatgttcaga gggaatgttg acaatgaatt ccttgactag actttcataa 240
 caatcaccca tcttgggtgac agttttcagc agtccagcag ccttgatgag gtccatgata 300
 tcttggcaat ccaaggcata tgtgtccagt tctctttcta aggcaagtct gcggtgatat 360
 acaaatctcc acct 374

<310> 17442
 <311> 371
 <312> DNA
 <313> Glycine max

<400> 17442
 tgttttttaac attgtttcac ttacaagtga tcattggaggt gaattttcaa atgagtcctt 60
 tgaaaagtgt tgtgaagaaa atggaattca ccataatttt tcagccccaa gaacacctca 120
 gcagaatggg gttgtggaga ggaaaaatag atcccatgaa gaaggaacta taacttttac 180
 aattgaacaa aagttaccta agtacttttg ggtctatgct atacatacta tttgctacac 240
 ttggaacata gtaattataa gacctacact aaatcttatg aactttataa aggaagaaaa 300
 caaaatatat ctcaattgag ggtttttggg tgcaaatgtt ttattttaaa caatggtaaa 360
 gtttctcta g 371

<310> 17443
 <311> 424
 <312> DNA
 <313> Glycine max

<400> 17443

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gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaaacct caaagtgaag 120
gctcgaatc tgaactatt gggcagaaa tgcgaatc tgaactcga ccaagtcagc 180
gagcctgctc gctcctcctc gctcctcctc gctcctcctc gctcctcctc 240
aaagaatca caatcaaaa gctcctcctc agatcctca gatcctcctc caagagatt 300
gacatgaaag caactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360
ctcattgggt ccttcctaaa ctttgagcta ggactctcgg ataggactga aaagaagagc 420
aaga 424

<410> 17444

<411> 408

<412> DNA

<413> Glycine max

<400> 17444

tggtaactct actgaagctg agtttctacc ctctctctgt cctgacatag aatctctagt 60
gcagctgaag gatgctatag ggttcttgat ccttcagatt cagtctttgt ttcttgtttg 120
ttctttttct tggatttctc tctcattaaa aaaatatcaa tgaaaaatat gatggattaa 180
ctgggttttc ttttcttggt atcggagaaa agataatgat tttcattggt ctcattatto 240
agtatttgga ttgtacatt ttttattggt tattatctat tcattcatta tattagtaaa 300
tttagttgt ttttaaataa caatatttga tgccaaaata aaataaaatg attagaacct 360
aaggtattaa ttaataacta ttatttcatt tatcatttat aattattt 408

<410> 17445

<411> 353

<412> DNA

<413> Glycine max

<400> 17445

tgcctatact ttttattaaa ataccactaa tcaaatttta gatgaagttg aacaacatcc 60
tgttqtacct cacagattca ttatgttaa tagcatatct ttaataaagt gggctaatgt 120
aaaattatto acaattatct atttgaagat gatgatadgt atataattta aggataaaaa 180

gagaataaaa tattttaago taacaattaa tattgcaaca aatactactt tatgtatcat 240
 tccaaaacat atgagtgatt accatactat attatttatt gaattctgaa ataaaactttt 300
 agatagtggg acatagtnaa atgctagcta aatgactcc tcagatgtag cta 353

<212> DNA
 <213> Glycine max

<400> 17446

tggccaaaca ttaattttaa attcttaca gttttgctta aattatctac gaattatgga 60
 ttgaaatctt gtaaattaat gaatccactt ttaccaaaat ttattgcttc tttcttact 120
 cttaaagtgt gcataaactt ttataatatt tacataacct ttaggtgata tattcaatta 180
 ttcaattataa tttttttatc tagaggattt ataacaacaa ctcatgtacc tttattttaa 240
 taattgaact aaatttcttg acatccatta acatttttta taatataaaa ctaatagcag 300
 taaaaatata ttatcaacta ttcagtaaca attataaact gccttttggt tccctaattt 360
 ttgtttggtt ttaaaaaaat cttataaaag cacaaataga ctgagattat gttaccaaaa 420
 tgat 484

<210> 17447
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 17447

tgcttgactt gtcttgtaa ttggtatact taaataccaa taagcataag atattatttc 60
 taaattttta ccttttgaag ctctagatgc tgacgagctt gacttggttag gttgtttatt 120
 tatataaaca ataagcgtca gaggtccat gtgaatgtgt tgggatgaat gatgtgatac 180
 attaacattt ttggttgga gattttcagt actaagtgac aacttggact tgcactgaa 240
 aatgtaatat aataatatgt tgcaagtcac ggttggctctt aaaatataaa accagagggg 300
 taaaatttaa gcaagttacc ttgactgaaa attgcctatc caggtatgca aatctggcca 360
 ttacatdca at 372

<210> 17448

gggtctagat atataatgag cctcaatcgg acctccgagt taaaagttat gaccatttga 130
aatggtcaag agcttccatt gttcaatttc gagcgtaacg atatatatg cacctgaatc 240
ggaactgaga gggacaactt atgaccatct gaattgctca agagcttcca ttgttcaatt 300
tgaagctca ccatatataa tgcacttcaa tggacttgc tggcacaac tttatctat

<210> 17451
<211> 429
<212> DNA
<213> Glycine max

<400> 17451
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atagttgaca taacactctt tcgcaaaaac taagattatc aatttttatt agtgcagta 120
tatgtagag atatcatttt tgatgtact aatgaaatgc tttctgaaga tttttctaag 180
ttgatgtaga cgaaatttga aatgagcatg atgggagagc ttaaattctt tcatcgatta 240
caaataaaaac aaacacccaa aggtctctac attcttcaaa ccaagtatgt gaacgaattg 300
ctgaagaaat tcaacatcga caatgcaaaa gaaatgaaaa ctctaatagca ccccatgaca 360
tacctcggac tgaacgagta atcaacaaag gaaagtttgt ctatgtggaa gcaatgattc 420
actcacta 428

<210> 17452
<211> 410
<212> DNA
<213> Glycine max

<400> 17452
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catttaacaa atccaatata atagtcattg ccttggttgc taatccacac aaaactttta 120
tatgatataa ttgattata aattcaagtt ttgtgtactt gcttccctca tacaatgttt 180
gaatcccatc gtttagaagg tcaataaagg cattatgac ttctcttggg tcatcattta 240
ctatttcata ttcatttaat ggttggtgat caccacatt aaggtcattg tgcctatatt 300
gttcaaatgc gtcattgata atcatttcca ttgggttttg aggttgaaca ccaactatct 360

ggaaaacatc ttccacttga gaagatttcta atgcttgctt ttcacccatga 410

<210> 17453
<211> 415
<212> DNA
<213> Glycine max

tcgacttaac tcttctctaa aanaacttgg gaagctatat tacttcttgg gaattgaagt 60
cagctctatg gctgatggct ctattcttct aactgaaaga aatacataag atatcttcta 120
cagaiaacta aaatggcaga ggtccaacct atatcttctc ccattggtttc tggatgtaag 180
ctcactaaaa caggagcaga tatattctca gaccccactc tgtatagatc agtgggttga 240
ggaactcaat actccaccat aaccagacct gagcttagtt ttgctgtgaa caaagtatgt 300
caattcatgg ctaattctct tgaacacac tggatagcta taaaaagaat cctcccatat 360
cmetaagget cgttacatca tggtaagta cttagactat aacagagctg agtat 415

<310> 17454
<311> 377
<312> DNA
<313> Glycine max

<400> 17454
agtttgtatg gttaaagtct cactattgtc atgtgtctat gcaacaattg ttagtcgttg 60
ctatacgaga catcttgcca aacaaagtca ggttaacaat aactcgtttg tgcctttctc 120
tccattctat atgtagcaaa gtcattgac cagtcatgtt tgatgagttg gaaaatgagg 180
cagcaattat actgtgccag ttggagatgt attttccccc tgccttcttt gacatcatga 240
ttcaattgat tgtgcacctg gtcagagaaa tcaaatgttg tggctctgtt tatctacggt 300
ggatctaccc ggttgagcga tacatgaaga tcttaaaagg gtatagaaag aatctatctc 360
gtctagaagc atttatt 377

<410> 17455
<411> 394
<412> DNA
<413> Glycine max

<420> unsure at all n locations
<410> 17455

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aaccaccatg aactctccag cgtttggctc aatcccgga cggcggaatca tctctctctt 120
atctggtcga aactctcaca gcagcagcaa caacaacaac aactctattt tcaaaatgct 180
tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
tataaaccag tataagatga agctgctctg caactctcc ttgaagaaat cgtgaggcac 240
atgaatctat caaacatgct gtttcacaa agaacagag cctccattca cagcttaact 300
aatcagatcg gaccaatcgc tacacagctc aattc 344

<210> 17456
<211> 374
<212> DNA
<213> Glycine max

<400> 17456
agcttgatg ccttggtct tcttcacaa cggagtcctt tgcctcttga agttcaatgg 60
aagcggaatg gagaaggaag aaagatgatt ggagatgcc cttcaaggag aagatgagtc 120
aagaacaagc tcaaccacct aagaagccat ggataagagc ttgaaggtag gagaagatga 180
gtggaggagg aaggagagaa ggagcacgaa atttagttcc tcaaatgagg tatgaacttt 240
gaagtgtaat tctcaaatga tcaaagttca aaaaatacac acatatggcc tttatttata 300
gcttaagtgt cacacaaaat tgtagggaaa tttgaatttc tattcaaat tcaattgaat 360
ttgaaattga attt 374

<210> 17457
<211> 362
<212> DNA
<213> Glycine max

<400> 17457
tgcttattcc gatctttatc tctctattca ttacagcaga gatgaactta attgctgaat 60
cacagtcttc acatattcta aggatcttga caatctgag agtcaactca tggccagttt 120
tcaatagccc aaatgccacc gaaagcttct cactgtggtt cctgacggga tactctcttt 180
cttctcttta caactctgtc atcgggact ctggacggg tgcataagct gcatctctgc 240
aactccatat caactcctcc aagaaactat aaatctcatt agtctcaagg tgagaactgt 300

cacccatgct aaaaagataa ctactattgt caacatctat ggtgctataa ccacttgcct 360
tc 362

<10> 17459
<11> 375

<12> DNA

<13> Glycine max

<400> 17459
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aatcaagata agtatgaaaa agttttttca aaaaactgag tagcacatgg atttttctca 120
aaacatgttt accaaagagt ttttactctc tggtaatoga ttaccatatt gtgtgaatcg 180
attaccagta gcaaaatgtt ttgaaaaag ttttcaactg aatttacaac gtcccaattg 240
atttcaaaaa gctgtaatcg attacaatgt tttggtaate gattaccagt gtgtttgaac 300
gttgaaatcc aaattcaaat gtgaagagtc acattcttcc acaaaaaggc ttgtgtgaat 360
cgattacact aatttggtta tt 382

<10> 17459

<11> 375

<12> DNA

<13> Glycine max

<400> 17459

ggaagcgggt atccgcctga aaagatatga ccattttaat ttctcaagag ctccagatgt 60
tcaatttcta gactctcgac atattatgcg ccgagtcgg acattcgggt aaaaagttat 120
gaccatttga atttctcgag agttttcgat gttgaatttt gagcgtctcg atataccata 180
agccgaatc tgaccttagt gtgaaaagtt atgaccattt gaatttccag agagcttgcg 240
ttggccaatt ccgagcgtca ctatatgtga tggccaaaag atggacattc gagttaaatg 300
ttatgagcat gtgaatttct caagagctgt ccgtgatcaa ttctgagcgg ctcgatatgt 360
tgatttgcct gaatc 375

<210> 17460

<211> 393

<212> DNA

<213> Glycine max

<400> 17460

ttgtgtgtgtt gtagtttcag ttgtgtgtgtt cttctgtcca tatttggttg tctcaaaactt 60
ggtacotttag ttaatatattt tgggtgttcta cttattctgt tgttgataat taaattattt 120
tctgtgtgtgtt gttgtgtgtgtt gttgtgtgtgtt gttgtgtgtgtt gttgtgtgtgtt 180
tattatttgt gttacatata tatggtaact tagtttgtat gttacatata ttgtgttag 240
tattctaaa ttattattca aatatatggt acgttagttt gtattaatat tgtatatata 300
ttgtttaaaat ttttttttgc atattaattt atgtatttca aatatatatt gttttattta 360
tttaaatattg tttttgcattg cattttaatt tat 393

<210> 17461

<211> 377

<212> DNA

<213> Glycine max

<400> 17461

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aatctgcacc tgtcaccaga ctctgtggtt tatgtctctc tgcogaccac cacacagacc 120
tttgcccttc tgtgcaacaa tctgaagcaa ttgaacaacc tgaagcttat gttgcaaaac 180
tctacaatag acctcttcaa cctcagcagc aaaatcaacc acaacagAAC aattatgacc 240
tctccagcaa caggtacaat cccgggtgga ggaatcctcc caacottaga tggtcgaacc 300
cttcacaaca gcagcaacaa caaaaacagc cttattttta gaatgtgtgt ggcccaagca 360
aacatacgt tcttcca 377

<210> 17462

<211> 239

<212> DNA

<213> Glycine max

<400> 17462

acotttagcag ccttctcttc agtgaatgc cccctttcca caatctatc aaacaactca 60
ccccctgcac agagctccat aacaacatga accgcacac agtctctcaa agctctcttg 120
atggadatca ctttaggact cccagccaag tggtycatta ttgaanctc cctcttaca 180
tactgcacat cctgatagt caaaagcttc ctgtctgata atgacttgcg tgcatactc 239

<210> 17463
 <211> 331
 <212> DNA
 <213> Glycine max

atcggcaata ggggacttcc tctgaaaaat tacaacacca tctcctgaac gagccacccc 60
 ctcccttagg aagactttcta atgtccctag tctttcgtct caaaatgaac caataaatgc 120
 tcccttagct aaccaatctt agtagcatca ttcctgttca tcaactatata atcaacatat 180
 actatcacat aaacacactt ctccagaggat gaatgacaat aataaacaga atgatcaacc 240
 tcaactacgtt tcaatccaaa aagtccaaca ttatgactga atttaccaaa ctaagcccca 300
 cgggattagc ttcacccata gagagatcaa c 331

<210> 17464
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17464

attgattctc atgcagaatt tgaaggccaa ctatcatgtc ttgcagaagt attgtcatga 60
 agtcacagtc agtgtgcttt gtaatgccca tgggtgagttc aggttcaggc cattgtggat 120
 agtatcgacc caaaatataa agtgcctcag cgcagtcocat ttctttgaag taagaagggc 180
 taatgccaaag agcctctgac aatagctcan agattgtaat gcccaacacc cttacttttt 240
 tggatatatto agccacaata tctctgcgaa agcatgatta tttcatcaat gacaag 296

<210> 17465
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17465

tgaaggagtt tattgcatca gggaattatt tcactttaaa agtgggtcct aattcddatc 60
 ctaattttca acttacctat ttggatgiga catcatggca gataggctcc aactttccat 120
 cctggattca atcacaaaac aaacttcaat atattggact gtctaacaag gggattttag 180

<210> 17468
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17468

tttactctta tttatagat gctctgagac attatagaat ctctctatad cctcttaaaa 120
 ttttatgta ttgtcaaac gggtacatcc accgtagata aacaggacca caacatttga 180
 ttctctgac ctgatgcaca atcaagttaa tcatgatgtc aatgaaagca aggggaanat 240
 acatctccaa ctggcacagt ataattggca gctcatcttn caactcatca naacttcacag 300
 gatcaatgac ttgtctacat atagcatg 328

<210> 17469
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 17469

gctcttggag ggaatggaag agggatatgc tctctctctt tagattcacc tgcataataa 60
 ttgttaggta acctactctt taaattgttg tcatcatctt tctctggagt acagtgaggt 120
 tgggcacggt catttgcgga tgacgaagat gctactgggt gaggtccttg aactgctttt 180
 cctgacctta atgtaatggc actcacattt ttgagatttt ggacagattg agaacgtaat 240
 ctatcagaaa tctgggactg ttgtgatctt aactgtgtag ccaactatcc catctattag 300
 ttaagctcta atggaggctt tgg 323

<210> 17470
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17470

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 tcaattagct tagttgcttc tctttgggtc tttagcttta ttttccctgc tgcagaaaca 120
 tctaacagtt acattggttg ttgtctcage ccatctatga acatattcaa ttggatgggc 180

tctgaaatcc catgggtggg agttcttctc aataaacctc tgaacctctc gaatgcttca 240
 ctccagagatt catcacggaa ctgatgaaat gaagagattg cagctttccc ttctgpagtc 300
 ttggactctg gaaagtatct ctttagaaaac ttccaacaa cttcttccca gggtttcaga 360

<21> 17471
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17471

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 gtcaatctta tatatgggtg ttgtaaagtt ggactcatta agaaagggtta atagaattat 120
 ttgattacaa atagacaatt atttataact tttaaagtaa taataatagg atttaattat 180
 ctttttggtc ttgaaatttg attgattttt aaaattttta acataataaa ttgatacttt 240
 agaataattn ttattatgac aatttttaaaa tacaatttca aacaattaaa aagtaaaaat 300
 taatttattt caactaaaaa tcataaaaaa tgtcaattta ttataccaaa gataaaaaag 360
 taattttataa aaaataaggg caaaaaaata tacaacccc aaattcaagg acttatgtct 420
 aataataata aaaac 435

<210> 17472
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17472

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 atcgagacgc tccgaattga atgttgaagg tctgagcaaa ttcaaacgac aataactttt 120
 taactcggatg tctaatttag tcttataata taacgagacg ctogaatttg aatgttgaag 180
 ctctgagcaa atcaaacga caataacatt ttactcggat gtctgattga gtcccgtaat 240
 atatcgagac actcgttaatt gaattttgaa gctctgagcc aattcaaacg acaataactt 300
 ttactcggga tctctgatat agtcccgtaa tatatcgaga caactcgtat tgaatattga 360

agctctgagc caattcaaac gacaataact ttttactcgg atgtctgata tagtcccgtc 420
 atatctcgag ac 432

<107> 17473
 <108> 17473
 <109> 17473
 <207> Glycine max
 <407> 17473

ctctgatggt agtcctcttt acaactggag agaagatctt tgtgaaatca attccttggt 60
 tctgttgaaa ccttttccac acaagtctct ccttgctatct tcttctacgc tcagattctt 120
 cctttagcct atagaccac ctattctgaa cgtttctttt ccttctggaa atttagttaa 180
 aacccaagtt ctattcttct gaagggatgt catctcatct ttcctcgtca gctcccactt 240
 attagtgtca tttccctgtg taggctcact gaaacattct ggtccaacag catcagttaa 300
 c 301

<110> 17474
 <111> 425
 <112> DNA
 <113> Glycine max
 <223> unsure at all n locations
 <400> 17474

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 tttaactatc ttagctgaga atgaaggggg tatcttattg accaaaaata acgtaatgct 120
 tatchtctca gctaggccct aagtcctaat tctaagatgg tatcaaagtt atcctagatc 180
 cattgctggg ccatctacat tgccatgtct taagccgatg ccttggggcat gatgagagag 240
 ttctaaaccc accttaattg cggtcactcg ttacttactc tagctgtggc ctttttgggg 300
 tttaacttaa ttgtagcttc aagggtgggg ttactctcca cattgattac agatattcct 360
 ttatataaat aagcgttaca agtgcgtgaa accctcactc ttgagctaac tattgtggtc 420
 gagtc 425

<210> 17475
 <211> 283
 <212> DNA

<213> Glycine max

<400> 17475

caataaggct tgcgaaggtgc atggcattgg gactgtcaga ctgagaatgt ttgacaacag 60
ggaattttta ggcgaatttt ttggttttgt tccaaacttc agcgtataaat ttgttttttt
ggtttttttt ggtttttttt ggtttttttt ggtttttttt ggtttttttt ggtttttttt
tatttgagctt tcaattcattt ctaagggaaq cccaagcaat aggtttatata tctttgaaat 240
atccacagtt attggacaag cattctgttg caagtcaaac aat 288

<210> 17476

<211> 370

<212> DNA

<213> Glycine max

<400> 17476

aggttttaga cctagtaatt gtcttagaat gggagctatt ctaagatgat ttggttgtca 60
tagtcattctt atgtaacacc cttatttttt gtaaaataaa ttaaaacaga ttttatttaa 120
aaataaatag ggttttacga aataatgagg tttctgaatt aaataaaaag gaggaataat 180
ttattaataa aaatgggtta agggaataat aaattatttc tagaaataaa actgttatta 240
ttattaataa agtaataagt ctttttaaat ataataagaa atgagtattt cgtgaagttc 300
tcaatataaa agaccttgca ttactacat cgccttcttt ttcttaatat tttctttctt 360
caaccttttc 370

<210> 17477

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17477

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cagaacaatg caacagcaaa aaggtttccc actgaggaaa ctgttgttga tggggaagac 120
ataattagca agttgcarga aagcattctt ggtcacattc ttcttttctt tccaaatatt 180
gaatcagtcg acaactagtgt gttatcaaaa aggtgggttg atgcttggaa atccataact 240
ggcctacaat ttaatgatac ttgtcttgtt ttggggaaaa agatgcataa agaacagttt 300

ggtgtgttttg tgaacatggt gtttcttcac cttgccaaatt caagtatcca caatttctct 360
 ctttgtttta caagtatcca gtatgattca accttgataa gtgcattgat ctcttttato 420
 tntaaaagg 429

<211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17478

ggagatggct aggtgttttg ttcattgaaa agaattgcca aagagatttt gggcggaagc 60
 cgcaaatatt gcagttttta tgcctaacag actgccaaaca aaagcttttg aaaagaagac 120
 accatttgaa gcattggtatg gctataaacc tgagttgctc aatctgaaga tatttgagtg 180
 cttgtgcttt ttcttacatt cctcggggta agaaggacaa actagacatg agagcagaac 240
 ctggaaacct tgaggctata gcttaatttc acaggcctac atgattctant tgccacatca 300
 tgacaagtat tctagcagaa tatgagattc tggactggat antggaactg g 351

<210> 17479
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17479

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 tgggtgttttc atctacacga cattaaatca catcaaatat tgccttccca atggagatag 120
 tgggataata aagacattgg atgtcccat ttacatcaat aagggtttctg gaaacaccat 180
 cttctgcttg gatcgggatg ggaagaaaag agccatagct attgattoga ctgaatatat 240
 ttttaaacct ccttgttga agaaaaata tgaccargtc atgaacatga taaagaattc 300
 gcagctttgt gggcaggtg tgattgctta tctccagcaa aaaggcttct ctgaggttgc 360
 cctccattnt gngaattgat agagaatacc gtccaatttc ggttggaga gt 412

<210> 17480
 <211> 338

<212> DNA
<213> Glycine max

<400> 17480

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tctctctga ggtttgga ggtttgga ggtttgga ggtttgga ggtttgga 120
ttaaagaaga gattgctgct ttccttctcg tagtcttggg ctctgggaag tatttcttta 180
ttaaatttct aaaaacttct tcccatcttt ttgactgttt acccttaaat aaatgaadcc 240
accctttggc ctctcatgac aatgagaatg agaataggct gagtcttata gcttcatctg 300
gcacaccaac aatcttaaca gtgtagcata ttccaatg 338

<210> 17481
<211> 338
<212> DNA
<213> Glycine max

<400> 17481

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cccttacaac tacgtagact cataaccgga gataggtttg aggtcaagat ctaattctaga 120
gaattagttg gtagatgtgc acaccaagct tgaacattca ttccggaccc tttatgtgag 180
catcaatatt atggatcggc tcttagcagt taggacaggt gcaaggttgg gaatgttatt 240
ggtttggcatc agagtcatgc tgagggcctg caaaattgaa gagatctgat cctttctgat 300
cccttgaggt aataaagata tatatacgcg tcatgttt 338

<210> 17482
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17482

aaactgttcc attttactga tctttgatag acatatatta taacaaatag ggcacatata 60
ataaatgaa ttaaatatgt ttgtcttaat aaatgatcga attgtattct ggaatcttaa 120
taaaagaatc tattattttg agtcattaat atattaaaaa tcttgttttg aatctctctt 180
atcagttatg tgatgatgtg atatcatcac aacccattaa taaaatttga aaaatttaatt 240

tgtaagggtga tacgtcatct gctcactaat gataaagatt aaaaataata cttatattat 300
 caaggacttc aaacaccata cttaatcatt acacatgtgt aataaaataa tcatttatta 360
 ttgac 365

<210> 17483
 <211> 420
 <212> DNA
 <213> Glycine max
 <400> 17483

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 agctaacctc cttgagaagc ttccttgaga agctagagct tagctacaca caccctctta 120
 ataactaagc tcactcctt aagaagagaa gctagagctt agctacacac ccttataata 180
 gctaagctca ccccatgac aaggctaaaa aatctacat ttctagggta cccgacctac 240
 attatggagc cctaaatata aggctaaaaa ataatgaaat cctagtctaa tatgtacaaa 300
 gataagtgga cccaaccttg gcccatgtgc tcagaaatct accctgacgt tcattgagaac 360
 cctagggcct tcttcagtag ctctagocca atctctttgg agccttttgc tcattggctct 420

<210> 17484
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17484

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 aaatccaatt gtctactac tgatctatct tcaatcattt taaacgaata caaagactgc 120
 tttaggtaaa gacgattaac taaagatttg gtcattgtaca aaccttcaag ctttaaccaa 180
 atccnagcag cagttgtttc cttagagact tgccctcagca ccttgtctcc gagactgagg 240
 ataattgcct tgggtgcctt ctgcagtagt gctttcttat ccccatcagc catcatcttt 300
 tcaagtttgg cttctccatc aagtgccttc accagggcct gctaaacaag aatagctctc 360
 atcttcaatc gccatagccc agaatcattt tgcctgtga atnnntcaac ctcatacttg 420

<210> 17485
 <211> 416

<212> DNA
 <213> Glycine max

<400> 17485

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 tcttattccaa gacactttct tgggtgggtgaa gcttctttctt ccattggctta ttctctagtg 120
 tcttattccaa gacactttct tgggtgggtgaa gcttctttctt ccattggctta ttctctagtg 180
 tcttattccaa gacactttct tgggtgggtgaa gcttctttctt ccattggctta ttctctagtg 240
 tcttattccaa gacactttct tgggtgggtgaa gcttctttctt ccattggctta ttctctagtg 300
 tcttattccaa gacactttct tgggtgggtgaa gcttctttctt ccattggctta ttctctagtg 360
 tcttattccaa gacactttct tgggtgggtgaa gcttctttctt ccattggctta ttctctagtg 416

<210> 17436
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17486

tcttcttgatt gagcaacctc aataccaaga aaatacttca gatattccaa atcttttggtc 60
 tcttcttgatt gagcaacctc aataccaaga aaatacttca gatattccaa atcttttggtc 120
 tcttcttgatt gagcaacctc aataccaaga aaatacttca gatattccaa atcttttggtc 180
 tcttcttgatt gagcaacctc aataccaaga aaatacttca gatattccaa atcttttggtc 240
 tcttcttgatt gagcaacctc aataccaaga aaatacttca gatattccaa atcttttggtc 300
 tcttcttgatt gagcaacctc aataccaaga aaatacttca gatattccaa atcttttggtc 354

<210> 17437
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17487

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 tcagacaatc caaataatta agagacatta tttttctgtc atgagcactt ttaattgttaa 120
 tcagacaatc caaataatta agagacatta tttttctgtc atgagcactt ttaattgttaa 180

atgtaactct tcatatctaa cttaaaatag atctaataaa ttattgtaga tgtttatatt 240
 tttttaataa ggaattatct taatattaaa aacaggtctt tgcaaaagaa gaatatgtgt 300
 agtctctctt cactanata actctaatag tanaaaggtt ataaaattaa ttgthaagtt 360
 ttttaattt ttttaattt

<211> 17488
 <212> 126
 <213> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17488

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 cctaaaattg atttccagtg cctgttaatt tatgcaggat ttaccaagta gcaaatgtga 120
 aatctgaatg gaactgtatc aaaacettcc ctgattttatc tggaaacaggt tttatacctt 180
 tttcccattg ttcattatcc ctgaggggtt tgatgatttc atgtttgttc agttactaat 240
 acacaactcg aactttttct tctcagggaa gaacacgtgt gtaaaatttg gtccagatcc 300
 taaatacata gctgtgggat caatggaccg aaatcttcgg atattcggtt tgcccgggtga 360
 agatgctctt actgagtcac aaaatgcctc agttgtacaa ggcanaagtt tgcctcggag 420
 taaaca 486

<210> 17489
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 17489

atctcgagac gctcgaaatt gaatgttgaa gctcttagca aattcaaaca acaataacct 60
 tttactcgga tgactgattg agtcccgga tatattgaga cgtctgata tgaatgttga 120
 agctctgagc aaattcaaac gacaataact tttactcgg atgtctgatt gagtccgata 180
 tatctcgata cgtctgaaat tgaatgttga acctgtgagc aaattcaaac gacaataact 240
 tttttctcgg a 300

<210> 17490

<211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17490

ggaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
 atttacctdg gtaactata tcaatgaaa atagacacg ttggaagat tcaagagtt 180
 gagtctaaga ctccaagag aaaaagactg tgcctcaag agaattagga gtgacctgg 240
 cagagagttt gaaaacagca agtttactga atctgcaca tctgaaggca tcaactatga 300
 ctctctgca gccatcacac cacaacaaaa tggcatagtt gaaaggaaaa acaggactnt 360
 gtaagaagct gctaaggtea tgcctcatgc caaagaactt ctctataatc tctgggct 418

<210> 17491
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17491

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 aatttattgt cgtttggatt ggctcagaga tccaacattc aatttcgagc gtctcgatat 120
 attacgggcc tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
 ctccaacatt caatttcgag cgtctcgata tatgaccgga ctcaatcaga catccagta 240
 aaaagttatt gtcgtttgaa ttggctcaga gcttcaacat tcaattttga gcgtctcgat 300
 atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga attggctcag 360
 agattcaaca tccaatttcg agcgtctcga tatattacgg gactcantca gacatccgag 420
 t 421

<210> 17492
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17492

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 atagcatcat ttatggcgct aaactgctgg gagttggaag ccattctcac aattaaattt 120
 ctgggttccag caggagtcac gtctccaagg gctccaccac tggcagcacc taccataact 180
 ctggtgagggc aactggcaca tagttnttta aatctctccc agtatccata caggtctctt 240
 ccaatgagtt gcttaatacc tggatattcc tctctgctgg ctctggtctt ggaagcaggg 300
 acattttttt ctaagaatac tctcttccaag tcatcccaac tctgcatgga cctt 414

<210> 17493
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17493

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 caaaattcaa tggctctcttc tgcaatgtac ctctcaacaa tagatgttgc tggatgatat 120
 agattctttg tatacccttt taagatcttc atgtatcgtc caaccgggta taccctccat 180
 agataagcag gaccataaca ttgattttct ctgaccagat gcacaatcaa gtgaatcatg 240
 atgtcaaaga aagcaagggg aaaatacacc tccaactygc acagtataat tgoggcctca 300
 tntccagct catcaaactt gacaggatca atgactntgc tacatatagc atggaagaaa 360

<210> 17494
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17494

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 ctactagtat gtttggtaaa caagcttatt ttaataaactt gtttttcata agctacttta 120
 aataacttat ttccatcaac tgccttgaaa taacttatga aaaataagtt ataagctact 180
 ggttttttcc tctccaattt taccatattt atttgaaatt ttattttatc attccattca 240
 actaaaaaac cctcatcacc ttttatcttc tgtctggaaa aatgctctta tcttttatta 300

gtttgttgaa tgtcaaacta tttatgtcaa taaactatta cattgettat tgtaatttat 360
tattaaaata ttttggtaact aaacaa 386

<010> 17495
<011> 117
<012> 117
<013> Glycine max
<400> 17496

ttagagaatt attattgtta ttgaaaaata tgcctcttgt agataacatg ctaccgaaga 60
atcattatga ggcaagaag atattatgtc ctattggaat ggaataccaa aagatacatg 120
cttgccataa cgattgtatt ttgtataggg atgagtatgc tgaattacgc aattgcacct 180
catgtggggg gtcattgtac aaagtcaatt ccaacgattg cagtgaacat gctagctcat 240
acaaagatcg tccatccaaa gtgtgttggg atcttcacgt aataccaagg tttaaagcat 300
tgtttgctaa tgcagaagac gcaaaaaacc taacatggca tgcctgatggc aggatcaaca 360
atggattgct ctgtcactct gttgattctc ctcaatggaa aataatagat cag 413

<010> 17496
<011> 269
<012> DNA
<013> Glycine max
<400> 17496

atcatggccc tattgccacc gtcataaata taggtatttt gagaatacat cttaaagacc 60
aatggttaac gatggctcta atgggcgggt ttgcttgaat aaataataat gagatcattg 120
ctttaagtaaa tgatgcggaa aaggataggg acattgatcc acaagacgca cagcaaactc 180
ttgaatagca aaagcttatt tgaatagggc gaaggcaaga gacaaacaat tgaagcaatc 240
tagctcttga cgagctagga cagcataga 269

<010> 17497
<011> 391
<012> DNA
<013> Glycine max

<023> unsure at all n locations
<400> 17497

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 aacaacctca gacacaggtt tgacaatata tgcacatggg atcatgagac tccctccgta 120
 caatggtgtg agatccaacg ttntaccagt aaaggcctca agaaaggtta tctcttggtt 180
 gctcagcaga tcttaccat cccctcaca aagagcagc ggtttctcat ctatcagaaa 240
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 300
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 360
 tttgttgaaa tgggaattgca tgtgtcaaat 390

<210> 17498
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17498

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 gtggaaagga atgagaggaa acaatatgtc aaagtatttg attatgcaca tgaattattg 120
 aggagcaatc ctggatcaac agttaagatc aacatagtgc caagcccaga aggtccacca 180
 caatttcaca ggttatatat ttgtcttgct ggctgtaaga agggggtttgt tgcctggatgt 240
 agaccattca taggtctaga tggatgtttc cttagagagt catatggagg aaacttgctc 300
 tctgtgtgtg ggcttgatgg caataaccac atctttgtta ttgcttatng tgntgcggac 360
 attgagaaca aagacaattg gaaatgagtt ttaactgtgt tgcataaaga tcttggggat 420
 t 421

<210> 17499
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 17499

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 taatataatg agacgatcaa aattgaattt tgaggtttctg agctaattca aagataata 120
 agttttactc aagacgtttg attgagtcct gtaatatata tagacgtctg aaattcaatt 180
 ctgaacctca gagcaaatg aaacgagaat aaatttttac tggatgtct gatgagttcc 240

cgtaatatat cgagacgctg taaattgaat gttgaagctc tgaccaaatt caaacgacga 300
 taattttgta ctctgatgctc tgattgagtc ct 332

<210> 17501
 <211> 411
 <212> DNA
 <213> Glycine max

<223> ensure at all n locations
 <400> 17500

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 tttaattaag caattattta taagttttta tcaaaattta agttaataat tgtcccccta 120
 actattaaaa taagttataa aaaatcttat aaaaaataaca taaataaactt ttattagctc 180
 gaataaaactt tatttatcaa aatagcttac cttatcagta taagtattaa ttacctctnt 240
 cccatatttt ttaatattta aggttattac acataaacta aanaatgata tattaataac 300
 atcgatgttt catacttgta ctaatagtaa taatgatatt aattagactc taaaattcta 360
 aagtatcaat tattttgaag agaagatgaa aagttagaat gtctaaaaat aca 413

<210> 17501
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17501

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 atgtcttctc ctaaatcccc atgcaagaat gcagttataa catttaactg ctcaaagtga 120
 agattctcta cagctgctat actcagaata actctgatgg tagtcattct tacaactgga 180
 gagaagatct ttgtgaaatc aattccttgt ttctgctgaa accctttcac cacaagtctc 240
 tctctgtatc ttcttctacc gtcagattct tcttttagcc tatagaccca cctattctgt 300
 aacgctttct ttcttctgg aaatttagtt aaagaccacg ttttattctt ctgaagggat 360
 gtaactctat ctctcctcgc tagctccac ttaatagtgt cattcccttg t 411

<210> 17502
 <211> 407
 <212> DNA

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<213>      Glycine max
<223>      unsure at all n locations
<400>      17502
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cttctctctt cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt 120
tndtctctta tgggagctctt aaacccctctc tctcaacttc ctctcaactc ctctctctct 180
ttccctctctt catgtataaa aagaagtgct aagtgaggag ggaatgaggt ctagggygtg 240
tagggggattg aaacctataga caacctcaaa agggggattac ttagtttgttc tatgaacccc 300
cttggtgtan gcaaatctta catgaggaag atactcctcc caagaactat ggttgccctt 360
cagaagagcc cttaaaaagg tggataaaga cctattcact acctctg 400

```

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#210>      17534
#211>      332
#212>      DNA
#213>      Glycine max
#400>      17534

ggacctaaaa actcaagcta ggggtaataa ggaacgcaac atctccctgc atactataga      60
cagacaaugga aatggagggt gcaaacctag taccgcaatt ccttacacca aattccacac      120
ttcgatatatc cagccacttg ggaatgactt tctaaagcaa gcaacgccta ggacaataaa      180

```

gagagtgaact ctgggtggcac catttggggc gtgctttgat tcaagaacca ttggcaagac 240
 cggtaactgga cccaatgtgc cyacaattga tctgagtctc aaggggggag ttcaatgyag 300
 aatctatggt gccaattcaa tgytcaaggt tc 332

<211> 400
 <212> DNA
 <213> Glycine max

<400> 17505

agcttcacaca accccaacta tagtcttagt aagctccgct gctgtctct cggataaatg 60
 cccaagctga ataattctat cgaaaagctc tccactgca catagtcca tcacaacgtg 120
 gaaagccatg gcactctcat atgcaccctt gatggatata acattaggat gccagccaa 180
 gtgggtgcatt atctgaattt ctcttctcac atctctgaca tcatcatcgg tgaagagctt 240
 cctcttttgc aatagatttac aggcatactc ctgtcttgyt gccttctcca cacacaagaa 300
 tgttgycccg aactgaccct gtccaagttt tctcccaaga gtgaagaact ccttgaaatt 360
 atctgtctct ctcttgaaca cagaatcaac acgaagccct 400

<210> 17506
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17506

acagcttaact aaaacaggag cagacctcnn ccttatctta ttttataga tcagnaggtg 60
 gagctcttca atactccact ataaccagac ctgaactaag ttttgcctga aacaaagtct 120
 ggcatttcac ggcacaacct ctggaatctc actggaacgc agtgaaaaca attctcaggt 180
 atctcaaagg ctctttacac catggcctac tttccaaagg tgcactcct ccatttccca 240
 ttaaaggcct ttgtgatgca gactgggtgt ctgacctga tgatcacaga tctacttcag 300
 gagctgctat ttatttttgt cctaattctta tatcttggtg gtctaagaaa caacagattg 360
 ttgcaagatc aagtaactgag gctgagtatc gaagccacgc acaagccttc t 411

<210> 17507

<211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17507

agaatgogaa tgtatgtata catgattttg atgatgccc aaagaaaatca aadaaggttg 120
 ctccaatga taagcatttg ctccaagaat aattcaagag tgcctcaaca aadaagcct 130
 tgtttcaaga ttcaactaaag accaagcctt gccttaaaac aaagtgtttt caagacatgc 240
 aaggetcttg taatcaatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa 300
 atagctgttg aaaaaggttt tgaatttgaa ttttcaacat gtaatcgatt accatatgto 360
 tghtaatgat taccagcaac gaaactttgg aaattcaaat tcaaaagtca taacctcttc 420
 aaatataact gtgtaatcg 439

<210> 17508
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17503

tgctaaceca tggaagctcc taatatctcc ctcaacttttt gtgggtgggccc attcttggat 60
 ggcccttgatt ttctcaaggt ccaattggac cccatttctt ccagctacaa aacctagaa 120
 aactatatta tctacacaaa aggtacactt ctctatatatt gcataagaggg tgtttttccc 180
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc tattgtacac 240
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc ataaaggtgc ttgggtgcatt agtgagcccc aaagggatct ctaggcattc 360
 atacaaacca aacttggtct tgaaagcggg tttccactca tcaactctctn tcatcttgat 420
 atgggagataa ccactt 436

<210> 17509
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17509

```

tgaagcttat taagtatatg tatataaatg tattaacata acattaaaat actaacataa   60
tatatatat aaatrataat aatgtaaaaa aaattaatat atatatatat atatatatat  120
gagcttat tatatatat tatatatat tatatatat tatatatat tatatatat   180
gagtcaaaat ttttatataa gaaagtogaa gtatatatct tatttgatac aaactcttct  240
tcttttttgc aatctaatg taataatgag aaaaatttcg acatatccaa aaacttggtc  300
ataaatatca aaattagata aattggccca caccggctta caaatgggat ggccaaatat  360
attacaaaat tntgctttcg ccaatgatct                                     390

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<210> 17510
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17510

```

agtgaccatt tgaataactc aagagcttcc attgctcaat tgtgtgogtc togaacatta   60
tgogccttaa tgggacctcc gagtgaaaag gtatgacct ttgaataact caagagcttc  120
cattgttcaa tttcgagcgt ctogatatct tatgtgootg aatctgacct ccgtgtgaaa  180
agatatgacc atttgaattt ctogagagct tccgttgttc aatttcgagc ggctcgatat  240
cttatgcgcc tgaatcggac ctccgagtga aaagttatga ccatttgaat aactcaagag  300
cttcacattga tcaattaaga gcgtctcaat atattatgtg cctgaatcgg aactgcgagt  360
gaaaagttat gaccatatga attgctcaag agcttccatt gtccaatntc gagcgtctcg  420
atatataatg cgcttga                                     437

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<210> 17511
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17511

```

agcttgcctgc caagggtttt tccgactatg ctcttgtgtg gtggaacaaq ctacaaaagg   60
agagagcaad aaatcaaad ccaatgggtg ataatggag agagaacaaa aagatcatga  120

```

ggaagcggta tgtgccgggt agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caagggggta actatggctc gatttcttaa tggatgtgct catgattcaa 240
 gcaaatattg aagaagatga ggaggttaact atggctcgat ttcttaattg tttgaactaa 300
 gctatctctc gctatctctc gctatctctc gctatctctc gctatctctc gctatctctc

<210> 17512
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 17512
 tctcagatag ttatgcgtct gaatcggaca tgcgagttaa aattatgacc attttaattt 60
 ccgagagact tccgttcttc aatttctagc atctcgatac gctatgtgct tgaatcggac 120
 atgcgagtgga aaagttatga ccatttgaat ttctcgagag ctcccgctgt taaatttctc 180
 ggcctctcgat acgctatgag cctacatoga acatgcgagt gaaaagttaa gaccatttta 240
 atttctcgag agattcogat ggtcaatttc gagcgtctcg atatgttatg tgcctgaatc 300
 ggacatgcgc atgaaaagtt atgaaccatt taatttctcg ggagcatctg ttgttcaatt 360
 tctagcgtct cgataactct tgcgctgaa tcggacatgc gagtgaaaag tataaccatt 420
 tgaatttctc gagagcttc 439

<210> 17513
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17513

ggaccttgat ctacgtttat aaatgcctat taatagacaa atgctgtttt ccgtatttat 60
 ttgggttgaa ttcatacagg gtgacatgag actgaactat ttgtaatgaa atggaattta 120
 aatttgaat taagaacctg ggtagaagaa gtgaaagata gatctcacta aagtgggtgag 180
 taattttacc atcaaatata atcattcata aaatcgatat atattaattt cataactaata 240
 atataagaa aaatacact catctatgaa taatcacact taactaagaa gtgtcaaat 300
 tatagcatta attcaaatata aaaaaataat taagggaatgt aagtatanat tattaattaa 360

aaaaattcat atg

373

<210> 17514

<211> 407

<212> DNA

<213> Glycine max

<400> 17514

ttctgcttga aattgaaaac cgaacgtctt aaaaaaagttt aacgacaata ccttttaact 60
cggatgtccg attgagccct gtaatatatc gagacgctcg aaattgaaaa cggagagctct 120
aagaaaagtc aaacgacaat aaattttgac tgggatgtcc gattgagttc cgtaatatac 180
caagaccctc gtaattgaaa acagaacctc tgagtaaatt caaacgacaa taacttttca 240
ctcggatttc cgattgagtc ccataggata tcgagacgct cgtaatttaa aacggaagct 300
ctgagaaaaa tcaaacgcac ataactttta actcggatct ctgacgcagc cctttaatat 360
atcaagacgc tcgaaattga aaaccgaagc tctaagagaa gtcaaac 407

<210> 17515

<211> 391

<212> DNA

<213> Glycine max

<400> 17515

gttgatcttt caacatcctc catcttttag aatttccaaa gcatattttc tttgcgaaat 60
gaatatacct ttcttggatc gagaaacctc catgcccaaa aaatacttca agtcacccaa 120
atatttaate tgaatcatta ccagttatga ggatgtcacc aacatagatc aataaggcag 180
taaatgattt gccctttctt catgtaaaca acgaataatc tgcctttgat tgaataaatc 240
cagcaccttg aatagttgta aagaacttgg cagaccattg gcgagagget tgttttaate 300
catataaggg attgttgagg tgacacacaa tgttctcccg ctgtcgtctga acactaggag 360
gaagagacat ataaatttct tcagaaagat c 391

<210> 17516

<211> 376

<212> DNA

<213> Glycine max

<400> 17516

catgtgaactg aaattttgcc aatttatatg aaataaaaata aatgcattct caagttttgt 60
 ttgttgaatg ttacaagctt tgcaaaaact ttttgcctgt ttagctctatt ctgcaaatat 120
 tagtattgat tatgtgttgg agtcattatt tgcctctgct aagccttctc cacagtctgg 180
 gtttctctt ttttctctt ttttctctt ttttctctt ttttctctt ttttctctt 240
 ttttctctt ttttctctt ttttctctt ttttctctt ttttctctt ttttctctt 300
 caagattct aaattcgtat gtttttctct ttagtgaaaa ttttctctt cagtgaataat 360
 gtttctctt atttct 376

<310> 17517
 <311> 406
 <312> DNA
 <313> Glycine max

<400> 17517
 agcttgaagt aaattcaaac gacacacaac tggatctgag atttccgaat gaattcogta 60
 gtatatctag acgtctgaaa ttcagaacaa aagctctgag caaattcaaa cgaaaataac 120
 tttttactcg tatgtccgat cgtttccctg agtatatoga gacctctgta attgaaacca 180
 gaagccogta gcaaaactca acggcaataa attctaactc ggatgtccga atgaatccca 240
 tgatatctcg aggcgatcgt aattgaaaac agaagctatg agcaaatgca aatgacaata 300
 actttttact cggatgtcgg attgagtcct gtaatatatc gagacgctcg gaattgaaaa 360
 cagaagctct aagcatattc taacgacaat aactttttac tcggat 406

<310> 17518
 <311> 434
 <312> DNA
 <313> Glycine max

<400> 17518
 agaaaactag ccgagctaac cccagagca taaaaatctt gtgttctttt gtgccaatca 60
 ttaattcttg cataaaccag accttagaaa caatagtatc ttgggtggtc atcaatttcc 120
 aaacttgcct tcttagcatg acaagattaa aaagcctgaa gatgcttgaa cccataact 180
 ccaaatctct ttttctctt caactctctc caatttaacc atttataacc ttgtctgagt 240
 gattgttaca tactacccca ccaaaaagag ttcattattt tttttctaat tcaacctgaa 300

gagtagatgg aaatagaaaa atgcttatac aataagtggg attgagtgag ctactaactt 360
aatgagaatt tctttatcca ccttggaaaag atactcaatg gaccagggat gaatacacat 420
ggaaaagtcta tctt 434

<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17519

agcttgcttt tccccttgat atattngagg gactcatggt cactatgaat gacaaattcc 60
ttgggataaa ggtagtgttg ccatgttttc aaagcccgta ctaaggcata caactcctta 120
tcataagttg aatagttaag ggtaggacca ctttaactttt cactaaaata agcaattgga 180
tggccttctt gcacaaacac agccccaatc ccaacatttg aagcatcaca ctttaatttc 240
aaagattttt gaaagtgttg caacgaaagt atgggggcat tagttagctn ttgcttaaga 300
acattgaaag cttctctctg tttctctccc catttgaaac caacattttt cttgagcaat 360
tcattgagag gtgtgtgcaa tgtgttaana tcttcacaa atcgtcta 408

<210> 17520
<211> 408
<212> DNA
<213> Glycine max

<400> 17520

tttgcctcaa gaaaaatggc cttagcaaac ttcttatttc cagaaggaaa ttcaatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccogaat gaaaattttt 120
attgaggcaa tagacttaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gaatcacat agatgggagc acaacaagtg aaagcataac aatagaaaaa 240
cctagagata gatggcttga agaggatgga agacgagtac aatacaattt aaaagccaaa 300
aacataatta catctcctg tggaaaggat gaatatctca gggtttcaaa ttgtaagagt 360
gctaaggaaa ttgtgggacac tctacaatta acacatgaag gaacaaaa 408

<210> 17521

<211> 336
 <212> DNA
 <213> Glycine max

<400> 17521

aaatatttga tttatatttt aggggttaatt gaagagagaa atg tttttgtg tttttttttg 40
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 80
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 160
 ttggtttgat ttggagggtt actttggagt ggagatgaaa atagagcatg tttttttttg 200
 ttacaaactga ggaggacaaa aaggtgaagc ttgcgcgcac ggaatttttc gactatgttc 240
 ttgtgtgtgtg gaacaagata caaaaggaga gagcaagata tgaagagcca atggtttgata 280
 tatggaagga gatgaaaaag atcatg 320

<210> 17522
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17522

ttgagaaaaa tcanacaaca ataactntnt acacggatgt ctgatagagt catgtaatat 60
 ttctgagacgc tctgaaattga atacggaagc tctgagcaaa ttcaaacgac aataactttt 120
 ttactgggatg tctgattgaa tcccataata tatcgacaag ctcgaaatag aatcttgatg 180
 ctctgagcaa attcaaacga caataacttt ttactcgaat gtctgattga gtctgtgaat 240
 atctcgagac gctagaaatt gaatacggaa gctctgagca aattcaaatg acaataactt 300
 ttactcggga tgtctgattg agtcccgtaa tatatcgaca cgtctcgaaat tgaatgttga 360
 ttctctgagg aaatacaaat gacaataact tttttctcgg atgtctgatt gagtcccgta 420
 atatatcgag acgtctg 460

<210> 17523
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17523

ttatctttaa ctatgtatgg aacaacttca ttactgttgt ttaacacata caagagagct 60

tatgacaaat cttctagact tggagtcatt acatgcaatc ctcttgaacc cttaccaccc 120
 actctgacat catgctgaaa ctttaagaagg ccaacaggtt tagcctctct aatgtattct 180
 gaacaaaaat caatggcttc ttctgcaatg tacctctcaa caatagatgc tcttggatga 240
 tctctctctc cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc
 tctctctctc cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc
 atgagtgcaa agaaggtatg gggataatac atctccaact ggcacagta 419

<210> 17524
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17524

atactcaagc tccaagaatt atggcctcat caaactatct gntttcgtgt gaaattgtat 60
 aaatagacct cctatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaaat 120
 ctttatagag gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc 180
 ctctataata gccggaagtg caacaataga aaaacttaga gcagactgga ctgaggaaga 240
 aagaagatta gtacaatata atttaaaggc caaaaatatt attacatttg ccttaggaat 300
 agatggatac tttagggttt caaattgtaa aagtgcctag gatatgtggg atacactaca 360
 agtaacacat gaaggcacia cagatgttaa aatatctagg ataaacactt taactcgtga 420
 atatgaac 428

<210> 17525
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17525

agtttgtgaa aaccttgaca caattcatgc aagtcttcat ctcaaaccat aaaaccacga 60
 aatcggaat caaaaatctt gaagttcaag taggcctaact tgcataagcaa ctgctggaga 120
 agtccaatgg caattttctg gctaacacag agaaaaacca caaagagaaa tctaaagtgg 180
 tacttacaat aagaaaaagg atggatggcc ttgttagtga taatttagtg gaaggtgtag 240

taaaagatat gggatgatgag aggaaagtgt angagagaga gacatagctg agaataaaga 300
 gaaacaaata agtgttgaaa atgtagaana aaccagaaaa gtggagaana aaagaaaaac 360
 aattttaagg aaggagttga cgaggcatat ttctta 396

<211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17526

agctttgata atctacetta ttcttgacag ccagtgggtg aatccagtc aagtggctcc 60
 taagatgaca gacctcaca taattaagaa tgataggyat gagcttatcc ccataagaat 120
 gcagaacagt tggcgagttc gcattgatta taggaggttg aaccaggtta ccaaaaaaga 180
 tcatctttcc ctgcctttca ttgatcaaat gcttgagcgc ttggctggta agtctcatta 240
 atgctttctt gatggctttt ctggttattt acaaaatcat attgctcttg 290

<210> 17527
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 17527

tcaacatcag accacttcca gggatgctga actactttac atggtcttga tggggcctat 60
 gcaauattgaa agccttggag gaaagaggtg tgcttatgtt gttgtggatg attctctcag 120
 atttacctgg gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaggagtt 180
 gagtctaaga ctccaaagag aaaaagactg tgtgatcaag agaatcagga gtgacctgg 240
 cagacagttt gaaaacagca agtttactgg atactgcaca tctgaggcat cactcatgag 300
 ttctttgcag ccattacacc acagcaaaat 330

<210> 17528
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 17528

ttgcatgcc a gctttgttcg aggatgccta cccattaccc attaaatata gactagtgtg 60
 tagggccaca agacccctgcc taattagctt cttagatgca tactcagggg acaaccacaa 120
 apggatgcct ccacaagatg aggagaaaaa aaacttcata acctaggcga ctaactattg 180
 ctactcatt aggaatttcg gctataaa gctagctcc acttccatg acctatgga 240
 atagtcta atcagagaat cacacaccta gcatctttaa gaaatatttg caaagatctg 300
 aagcctaaca tctaaactcaa ttogaag 347

<210> 17529
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 17529
 atgtgggataa acttccttgaa gggcttcttt gtctgcttgc attccaagca attctctacat 60
 ttctccctgtg gttattgtag ttgaagaatt ccttctgcca acttctgcat ttgagcaaaa 120
 tctttgaaat tcaagtgtcc aagcctacag tgcacaaagcc attcttcttt gttgctcaca 180
 gcactaagac attctgtctc aaatgcttgc gtccaattt tgaaagtctt atttctggtc 240
 aatgggtgtt ttatgattag atttctgggt ttgtcatata ccagcatcat catgtccctc 300
 atagttatct taaagccttt ttg 323

<210> 17530
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 17530
 agtttcttgt ctgggagatg tccgactatg ctcttctgtg gtggaagtga ttatgcaagt 60
 tgaagtggaac gtttccattg ggaaatacaa tgataaggta ctttctgcat ttgttccat 120
 gtaggcacgt cacttacttt tggggagacc atggcaattt gataaaaagag ccaatcatga 180
 cgtttacacc aacaagatct ctctcattac ttttgggtgt gcataaaaaa tgtacaatgt 240
 aagtcggcta ggtatttttg tgcagctca accgacattt tgtttcagag gaaactggca 300
 tgttccatt tatatggcc agtaaatca tagccacct tggcataaaa atatttgcta 360

catgctataa gaattgacag gcatgtcacc aacatagacc togatatttc atcctatttt 120
 ttgtttggag acccgggtcca tgaacctttg gtacgtggcc cctgtagtct tcaatccaaa 180
 gggcataacc atgttacaga aattgatgtc ttcaattatg aaggcaattc tctctctgtc 240
 agtctgtgac atctgtatct gattatcccc tgaatcggtc tctatctaac ttacacattc

<210> 17534
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17534

agcttattac tttattnttt cygatcgtgt aatttaaaac ttataattga tagcagaaaa 60
 taaaatttat aatttgttaa aatagaattg ttgatatat ttaattatto tatcagttga 120
 taaatataaa atgatataaa aatgtttata tactattgtc acataaaaaat gttnttttagg 180
 taactataat tttaaatttt tgattcttat tttttttgga aatatataat attttattaa 240
 aaataaaaata tcagaaagga tattaaaata gttaaaagac ctataactat taagaagaga 300
 tgataaataa agtggattaa agcaagaata aaaatgaaaa gaaagaataa tattactaat 360
 acatgctttt aacgagttat aagttaac 388

<210> 17535
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 17535

agctttacac agtttatttt ttccaaactt gagttttgga agaccaatta ctaagtcttt 60
 cctaattaga tgatttaaatt gattcatatt aatgtgtgca gtcttacaat accacaacca 120
 tgaatcatct atcttactca ccaagcaact tagctcatga aaaactgcat gctcaacatt 180
 cagcatataa atgttaccta ttctcttacc aatgtggata actttatcgg atatggcttc 240
 acttataaga catcaatcta tcttgaattc aatcttgaaa cctttatcac aaagttagct 300
 aatacttaga acggtatgct ttaattcatt caataatcac acataattca tctaaaggtt 360

<210> 17536
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17536

17536

taataatata taattatgaat aattagaagg aaaggatagg taatgattag tccaacctaa 120
 ttgtgataat taataataat acacaaaaga aagcctaaat tggtaaccca attattcaag 180
 ttcagagggt ttgacttcca atattaattt gacctcaaa atggaaggat tggcccaagc 240
 ttattgatgc aatcctccca aggaggggac ccacacccat agccatgact aggagaactc 300
 aggaagattg ggcctagggat gcaagagaag gccctaaggt tctcatgagc cttangatag 360
 aatctggggc catggggctaa gtatgaacc accatcttt 400

<210> 17537
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 17537

agcttttggg gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tctctatatt tcagattgag aatgcctcta acagcacctt tgcgaatgag tttcttcatt 120
 cctcttaagt gcagatgtcc aaatctttga tgcctatctc tgaattcacc ttctttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgct ataggttagc gatgtccttt 240
 gatctgctgc cctttattag aacttcacac ttctcatttg tcactaagca ttctgacctt 300
 gtgaagttta cattgaatcc ttcacacac aactgactga tgcctgatca tttgcagtca 360
 gt 362

<210> 17538
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17538

agcttttatgc ggcataattt tagttgttcc ttcttccctt atcttttaag atagtcacata 60

caatcagggtc tctccaattt caagacatgt tattctatta agaaattata agaactttga 120
 atttttaaaa ctattcatat agacattagc aactcacatt gtttttaata gaaattatgt 140
 ggggtgttgg atgaacatta atataattga tnttgaatga aattaatttt ataaaattga 240
 attaaaattg tgttnttata catatatnta tgacaaatac taattacgtt gttcatgato 360
 ttttaattt taccatagtt 340

<210> 17539
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17539

atgacacagn cttatgggtc ttcttggatt atatgttgca tacatcgggc tcttggcata 60
 aatggagaaa gtggatccca gcttgtcttc actcagcaac catttctatc cttattaatg 120
 gcagccctac aaaagagttc acccatctc gaagcttgag gcaaggagac cccctaaccc 180
 ctttactctt taacatagtt gggaaagcat ttcaggccta atgaaggaag cagtccggaa 240
 gaatctctat accactacag gttgcgatga aatatgagcc cacaatatto tgccaaatgc 300

<210> 17540
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17540

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 ataatgatt aaatatggtg aaataaagaa aaaaattaaa ataaagttag ataaaatatt 120
 taatttgata aaatttatta acttctaaaa tgatatacag atacacgtgt atttaggaat 180
 gaaaacataa tatacatgtt aattcataat ataagaaaaa gttataatat tttaaaatta 240
 gcataataaa aatacagacg tacacgtgtt tgtatttctg ctagnatata ataaaattaaa 300
 ttattaaata tanaacacat taatttttaa tcaacatact ctattagaat aaatgacata 360
 taatgggttt caatggtaat ttgggtgttt tgttttaatt tgttatattt tctaa 415

<210> 17541
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17541
 17541

cccccaatcc tccatagggt gatgaggttg tccatcttct ctaagtcaca tccatccatg 60
 actcaccaca taaataaatt cagcttcaca cagtgcataa atccttatgg cagctctcat 120
 cttagtcagtg aaaacaaaagg gcatntaaat ttgctgaaa cagatttcct gtagcatatg 180
 cagggcttct tggagtgtat gtctgaatgt tgaaatttaa ttaaaaggg agtcaataat 240
 ccagaaacaa atgatggaag tcaagtttta ttatcttcta aagttgaagg ctatacatgc 300
 atgaagcana aagatggatg atgagtgaag atgcaatgta cctaatatga aatttactgt 360
 attaggaag t 371

<210> 17542
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17542

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 ttggaatcac ttgaacttga ggggaatta ttcccttgga gcaggtatgt caattccctc 120
 ttcccttgga acaatgactt ccttgactca cctcgacctc tctcttactg gattcatggg 180
 gaagattcca tctcagattg ggaatctctc caatttggtc tatcttgacc tcggagggtta 240
 ttctgtcgag cctatgttag ctgacaatgt agaatgggta tcaagtatgt ggaagcttga 300
 atatcttcat ttgagttatg caaacctatc caaagcatta cattggctac aactctcca 360
 atctcttctt tctttgacct acct 384

<210> 17543
 <211> 354
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 17543

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 taattatgac atttcaagca acagatacaa tccaggttgg aggaatcacc caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tatccctcat ttcagaaatg ctgctagtct 180

 acaataagaa actgagggct cctccacaac ttccttagaa gagttagaga agcaaatggc 240
 tatccagaat atgcaatntc agcaagagac aagagccttc attcanagtc tgac 304

<210> 17544
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17544

acttcaacaa tattacaaaa ttgattttta tatctttaaa ttgattaaaa atatcatttt 60
 aaaataatta acaaatatgg tttttgaata taaaaaacac acgctatttc aacaaattta 120
 atataaatat ttattttttac gataaataca tttaaaaatt aattatgaaa agaatcaagt 180
 ccatcttaca catattatct caaaattgaa taattatata ttcataattt acatattttac 240
 attctttttt aatttatata tttcatataa gtattccatg actattactg cttagtaaaa 300
 aattaaatta taataaatth cattaggtta agtattttta atgataacat aggtttaatt 360
 acaattttta ataatcatct tctttgatnt aatataatat atatatatat cattgatatt 420
 ttgacatg 428

<210> 17545
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17545

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 ngggccaagg atgcatggga gatcctgaaa accactcatg aagggaacctc caaagtgaag 120
 atgtccagat tgcactatt ggcatacaaaa ttcgaaaatc tgaagatgaa ggagggaagag 180
 tgtattcatg acttccacat gaacattctt gaaattggca atgcttgcaac tgccttggga 240

gaaaggatga cagacgaaaa gctgggtgaga aagatcctca gatctttgco taagagattt 300
 gacatgaaaag tcaatgcaat agaggaggco caagacattt gcaacatgag agtagatgaa 360
 ctcaattggtt ccttttcaac ccttgagcta ggactctcgy ataggact 408

<211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17546

ttctcagtc gctgttaaag atgattaggt gttanttagc ggcgatgect actgtagact 60
 gttgtctctcc catgtttaag ttgtatgtaa cttgtatttt cttcacagat ggggcattgag 120
 tcatgacctt taacactgta accgctgaga tcccatatg ctggaaaagtc attaatggta 180
 caaaaaagca ttgcacgcat tccaaaagtc tcttgcgaa accatcata cactacaacc 240
 cctctgtccc acaactttct caaatcttca atcaacggac ttagataaac atcaatgtca 300
 tttcttgggt gttctgggco cgatatcatc atagacaaca tcatgtattt tgccttcag 360
 cacaaccaat gagacaaatt gtaaattact agtagaactg gccatgaact gtgttgagtg 420
 cttaaggagc catatggatt cat 443

<210> 17547
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17547

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 ccaaacctgg aatttgcttc gagggagggg gaccaagaaa aaaaaatgtt tacatgtata 120
 taacatatata aaaaagggtt aatataatg atatatataa tattttttta taaaaatata 180
 tataacaata tcaagtaaaa aacattatta tctaactaat tatatcattt atataaatat 240
 aagaaacaaa tataaatatc ttcttggtaa ttataaaaaa agacaaactt gtattttaat 300
 atattaata tacattata taagagacaa atagatacaa tttttatct cttaatgtat 360
 tgggtgaagt actaatgaga taatc 385

<210> 17548
 <211> 372
 <212> DNA
 <213> Glycine max

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 gttatgtccc cgaatcggac atctgtgtga aaagtatatga ccatttcgatt ttcttcagag 120
 ctctcgttgt tcaatttcga gcgtcttcgat atatttatgac cccgaatcgg acatctgtgt 180
 gaaaaagtat gaccatttcga tttcttcagag agcttcctgtt gttcaatntc gagcgtctag 240
 atgagtttatg tccccgaatc gaacatttcga gtgaaaaactt atgaccattc gaattttctcg 300
 agagcttctcg ttgttcaatt tcgagcgtct ccatatatta tgttcccgaa tcgggcattc 360
 gagttaaatg tt 372

<210> 17549
 <211> 215
 <212> DNA
 <213> Glycine max

<400> 17549
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 ttgaaagaat caatgacaat gttacaaaag ttgagctgcc cggcgagtat aatgttagtt 120
 ccaccttcaa tgtctttgat ttacctctct ctgatggcag atgtagaatc cgatgtgaag 180
 acaaatectt ttcaagatgg agagattgat gagga 215

<210> 17550
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17550
 tctataatc aacgcacatt ctccatctcg tgtctgttct ggtatgaatn agaccatttc 60
 gaacatttct tattaactgc attctctctt tctttggaac aacttgaaca agactgacct 120
 atgagttgtc ttgagattga tagataaagg ctgcctctaa taacttgagc acttcttttc 180

<211> 375
 <212> DNA
 <213> Glycine max

 <400> 17553
 ccttgggtta tcttctctct cactacatga agaatcattg gcttggatct tctatgtggc 60
 tcttctctct ccttgggtta tcttctctct cactacatga agaatcattg gcttggatct 120
 ctacagggaa tcttgggcaag cgttcagcct atagccctct tctgcttctt gaggactgac 180
 aatactttt cgtcttggct atcagcaagg gaggcagata taatcactgg aaaactcttg 240
 taatcatcca agtaagggtt ttttaaattt gatggcagag gcttcaattc tgggtgtggtc 300
 cgttggacag tggtagaagg agatggtttc tcagccctta cctcataaag aaagtcagag 360
 ctatgtgtac ttcct 375

<210> 17554
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 17554
 agcttttaet aaagtattct ctagttaga gtcttgcate agtacaaccc ttattccaac 60
 accaaaagca tcacattcaa tttttcaaaa gctttatcaa aatttgacaa acaaagcaaa 120
 tgtgcatttg tcaacttgct tttcaatata ttaaaagttg tctcatgcac atcagtcac 180
 ttgaacacca cattcttttt tacaagttcg tttaaaggtg cagcaagtga actaaagett 240
 ttcataaata ttctataaaa acttgctaaa caatgaaaag atcttacctc attagcattc 300
 ttaggtacag gccattcctt aatttccttt accttttctt catcaaacct tatttccttt 360
 gagctaatga aataacctaa gaacacaact gat 393

<210> 17555
 <211> 351
 <212> DNA
 <213> Glycine max

 <400> 17555
 ttataataa acaagccgag ccgaaccag tcttacctaa gtcgaattga agacctcga 60
 caagctgttc ggctcatttc cacccttacc tgcataaca tagaagtggg taacctcaca 120

atTTTactta tTccaattat caTgctctt tTccccTtga tTttcacacc gggccstaagt 180
aacaactcaa tgcagccctt gggagcacaa ggaacaaaga agggctttct tctcttatg 240
caatttcaat tctttagcaa taacttaatt ttgtagattt tttaaaaata aattcaatat 300
ttggataat ttttacttat tgcagctctt ttttagtact aattcaatat 360

<210> 17556
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17556

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taagatgttt aagctctgtc atctcaagtg gtagctcgcc cgagagggtta ttaatgtaca 120
tatggatctg ctcaaggctt tgaattctcc atatgccaa gggaaattct cctgtcaaat 180
tgttttcaca caatctaaga tcacycaatt tactcaagtt tcttaattcg cttggaattc 240
ctccttcaag ttgattgtaa ttcaaactcc actctttcag tgattcgcaa ttaccaatct 300
gtggatgtat tttccctgac aataggttct ccggaatgaa taacat 346

<210> 17557
<211> 350
<212> DNA
<213> Glycine max

<400> 17557

agctttgaga caattcattc gacaataact ttgtactcgg atgtctgatt gattcccgta 60
acatatcgag acgctcgaaa ttgaatgttg aagctctcag ccaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgagctcctg aatagaacga gacgctcgaa attgaatgtt 180
gaagctctga gccaaattcaa acgacaacaa ctttttactg ggatgtctga ttgcgtcccg 240
taacatatcg agacgctcga aattgaatgt agaagctctg agacaattca aacgacaata 300
aatttttact cggatgtctg attgagctct gtaatatata gagacgctcg 360

<210> 17558
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17558

ataatttnag cgtctcgtat attacggttt ctatcagaca tccaagtaaa aagtgagtat 60
 atttggaaa atcttagaaa ctccagcttc aatttcgaaa cactccatct atcttagaaa
 tttttagaaa atcttagaaa atcttagaaa tttttagaaa tttttagaaa atcttagaaa
 taatttcgaa cgttcgaaata tattacggga ctcaatcaga catcccgagaa aaaatttatt 120
 ttcgtttgca tttgtcctaaa ggttcaaaaa tcaatttcga gcgtcttgat atattaccgg 300
 atttatcag acttcgagat aaaa 324

<210> 17559
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 17559
 agctatgctt acaaactctt catcccccctc aacaaaagac tctttcaaatt cgtttctacc 60
 attataacaa caattccaaa gaatattggt catattctat ttattttaata aaaatttaggg 120
 acattgatgt ttagtcatgc atactcttag agtgatctct attatatatt tgtagcaaga 180
 attatgatca tacttttaggt gaaaaaaatg gcatacatat aatgtttgac tttctaaagt 240
 cacaaagtat ggaatataaa taacataacc acaatcagat atatatactt aacacgttta 300
 gtataaaaaa tttcaaacaa gtacaataaa aacctcaact aacccaaaca atagaacata 360
 agtgtcagta atgaagcgat cacccaagat aaac 394

<210> 17560
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17560

tgcdaactaa gtgtcacct ttagtagagg agaatttctt atgtctgttc atgttaacct 60
 tttctcttag atgaaccatta aggaatgttg tttcacatc catttgatgt aactcaaagg 120
 tcaaatgagc tactaatgcc ataattatc agaaagaatc tttcttaaat acaggaaaaa 180
 aaggtctgtt gtaaccaatc cttctcttgg agtgaacctt ttggccacaa gtcttgcttc 240

atgtctctca atgttgccct gtgagtcctt cttgggttta aaaaccacac tacatccaat 300
 ggtttttaca ccactaggca actgtaagag atcccagact tggttaaaag ccataaaaac 360
 atctcatnct tcatgggata tgtcaacaag ttgattcttt agaactcatg ggccctgtgaa 420

<210> 17561
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17561

agctttacat gatngatttt ggtgttagat ttggccaatt tgaaggcaag atatgggagg 60
 aatgataaaa ttttcaactga attgcttgtg ttgttgaaaga agatgatccc taaagataac 120
 aagttgttga atattcacta tgaggtgaag aaaatactat gtccatttag tatggagtac 180
 cagaaaatac atgcatgcct taatgattgg ataccaaaaa atgagtttgc agaaatgcat 240
 aagtgcctca catgtggggg atcgtgatac aaagtgaatg atgatgacta cagtaatgat 300
 gtaagcacac acaataacca tccaacanag gtgtgtttgct atcttccaat aattccaatg 360
 ctttaagtga tctttgctaa tggagacaac a 391

<210> 17562
 <211> 167
 <212> DNA
 <213> Glycine max

<400> 17562

gataattatgt cctgtgggta tggagtacca caaaatacat gcttgcctca atgattgcat 60
 ttggtatggg aaatagttgg ctgaaatgca caaatgcccc atatgctggg taccacggga 120
 cacaatgaaa gatgatgaat gtaatgatga tgcaaccaca tgcctgta 167

<210> 17563
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 17563

agctttgatg caacattttg aaagggttaat gaaacaatga gatgatgogc tccatgagag 60
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gaggggaatga 120
tgggttccct agacaaaaatc aaattgatgg tattaaaactc aacattccctc ccttttaaagg 180
aagaaatctc aagagagagc aagaggagagc agggagagc agggagagc agggagagc 240
tattatcttc tcttctcttc tcttctcttc tcttctcttc tcttctcttc tcttctcttc 300
tacttggttg gagatgaaaa ggatcatg 360

<210> 17564
<211> 394
<212> DNA
<213> Glycine max

<400> 17564
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ctatacgaga catcttgcca aagaaagtcg ggttagccat aactcgcttg tgctttttct 120
tctatgccat atgtagcaaa gtcgttgacc ctgttaagtt tgatgagctg aaaaatgagg 180
ccgcaattat actatgccag ttggagatgt atttttccccc tgatttcttt gacatcatga 240
ttcaactgat tgtgcactcg gtcagagaaa tcaaatgttg tagtccattt tatttggttg 300
ggatgcaccc gggtgagcga tacatgaaga tcttaaaaacg gtatacaaag aatatatatc 360
gcccagaagc atctattggt gagaggtaca atgc 394

<210> 17565
<211> 327
<212> DNA
<213> Glycine max

<220> unsure at all n locations
<400> 17565

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aaccacagca gaacaaatat gacctctcca tccacagata caaccttgga tggagggaatc 120
accttaacct cagatggctc agccctcagc aacaacaaac gcagtctgct ccttccttcc 180
aaaatgttcc tggcccaagg agaccataca ttccttccac aatcccaaca cagctacaac 240
cccacaaaca gccaacagtc gaggcctctc cacaacctta cctcgaaaac ttgtgagaca 300

aatgactatg cagaacatgc aatttca

327

<210> 17566

<211> 372

<212> DNA

<400> 17566

atcttatagt tatggaggg aaataaada atccaaaat caattgtacc ttccaagtaa 60

gaaagaattc tttttggagc ttttagacga ggagaggtag aaacaattat gaggaagagg 120

tagaacaat tatgaaaaag catatgaaag gaagtatgat aaatctaata ttgaatgttt 180

taattgcat aaatatggcc attactcttg ggagtgtaga acaaagtgtg aagagaaggt 240

caatcttggt gatgataaag gagaagttga agagtcaaca ctactactat cacttaataa 300

tggtgagaag gaagacaaat gcttatggtc tcttgacaat ggagcaagca atcacatgtg 360

tggtgcaaa ga 372

<210> 17567

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17567

aacctttctat gaattctcgg taatatcctg ctaagtccaa aaaactccta atctcaaaaa 60

tagacttaag actctccac ttcagaacaa cttctatctt aaaagggctc acaactatac 120

ccccgtgaga tatcatatgc cctatgaaac taactttctc taacccaaat tcacacttgg 180

acaacttaac ataaagctgt tggttcctaa gggatatgcg cacaatcctt aagtgcctct 240

cgtgcctctc atgtttctca tgttctctc taacctgacc tanagtctat cttgctaaac 300

acacaagctc ctaccagctg gtcagaagg tcctctatct tangcanagg gtacttattc 360

tttatctgtc acctatttca actga 385

<210> 17568

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 17568

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agcttgggcta ttgcatactt tggcaccag ccacctaaag agtgacctac aaatgaaatt   60
ttctgaacac ttgggtgacg ttttataact gatataacct gngaaaaaag aagaagaaaa   120
agagccaaaa gattagtatc taacaaaggc taaaattaaa gtatgactaa gtttttagact   240
tgggttagt cttataatca cttcaaaagat ctttaattaca gtggttaca aaaagaacaa   300
gttaaaagtc aaagccataa cacacctctt ctgctagtct atctccatt acatcaacac   360
cattcaaatgt caacatgg                                     378

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<210> 17569
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17569

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agcttgcagt acaacatttc aattgttgac aagtaactta aaaaagagaa atatgacaac   60
ccttttttcta cttaaaaaga aatgacatgc atcagcaatg aaacaacgta gcaaaccttac   120
atggtaaccag gccaatgtac aacagatatg ttgaagtttc tctgttcttc ctgataaaac   180
actgtatttg agaatcacga ggaccangct attcatgcac aaaagagaaa cataacataa   240
gaaacagaat accttaaagg gaaaaaaaaga taaaagatta ggcaacacaa gaggtgaaga   300
atttatcacc tgcttcaatg aaatgggaaa tgtgagcctt ncacattgtt caggagtctt   360
aacaatctct ttgttaac                                     378

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<210> 17570
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 17570

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ctataaaaact cagcttgagg tacacctgga tctctgtttg ttctattgtg ctgattatat   60
acctcgtttg gacaacgaac aggttttgaa aatagtgcgt agcacacaa actatgaaca   120
cagggaaaagg cattgtcttg aggaacctcc taactgcctt gtgcacatcc cttaaaggta   180

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caaaaacaccc atcgagtggc ctagcagcag agataaggac attcttttatt ttaattttatc 240
ggcaaatggtt aattgtttatg gggaaaaaatt aaactttacca tctttccctt gggtctctctt 300
ctgcactaag ccactttata gttataactc acatgtacac acacttagtc ggcccttttat 360
atcttcaag caacttattt cctgtctctt tcttcaaat atcttcttca ccttctcttca

<210> 17571
<211> 433
<212> DNA
<213> Glycine max

<23> unsure at all n locations
<400> 17571

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tttgcctttt agacatgact cctgcttcaa taacatgggt tgcctagtctt gtaaccacca 120
acctagtacc attgcataac ccttgtgatt gatacatggt ccttaaaagc attattgggg 180
taaccacctt tagttntatc ctatgattag gaagaccaa tggtctcaa ctattgagaa 240
attcaacttg gaccacttca agtgcatttc attcaaccat ttttgacttg tcaattgaat 300
aagaacttag atattccctt tgatcacctg aaaacaattc attaataaaa acattgtaga 360
atcaatatta attattaaat caattgatta tttgtgagat acctggatta aagaaaaaca 420
taatcttatt tga 433

<210> 17572
<211> 419
<212> DNA
<213> Glycine max

<400> 17572

ctcagctaac aatccttgtg atctattatg gaatatttct atccctatca catagcttac 60
ctcctccata tcttccactt caaagtctct agagagaaat ttcttagtct catgaagaag 120
accaagatcg ttagttgcaa gcaagatata atccatatac agaattagaa aataacctta 180
ctcccaatga ccttcagata catataccga taatatgtat tttcctttaa tctaaaggaa 240
acaatgggat caataaact caaataccat tggcgggaag tttgccttaa gactgtatat 300
ggatttcttt agtttgaca ccagtgttc ctttcccttc actgagaacc ccatttggtg 360

gtccatataa acattatctt cctaactctt atttagaaaag gcagttttca catcatct 419

<210> 17573

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17573

ctatgaaggg gttatcagat atgtactaga agccgttgat agccaacaaa gtataactga 60
 ctggctgggtt gttcaacctt aagatgggag aaggtatctc tataactaat catattaatg 120
 aatttaatat tattcttggc cagttgaagt cygtgcagat caaatttgag gatgaggtga 180
 aggcattgat tctattgtca tcaactatcg atagtgggtt tgcaactggt actgcagtta 240
 gtagttctac aagagagaa acattanagc ttagtgcacat tegtgcactg atcttaagtg 300
 aagatgttg caagagagat ttangagaat cttctagta tgtttccaat ttgcattga 360
 atactga 367

<210> 17574

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17574

tgaaagtgtg taaccaacca ttntctcatt gtataactac cggaacgtgt atactatcat 60
 tgtgatcacc tttttctctg tcattgaagg tgccacttga gctgtcaagt ccctccacct 120
 ctggggcgtat tcttgaatg actcatgctc tttttacac atgttttga gttgggttct 180
 atccggagac gtatcataat tgtactgata ttgcctaacy aaggcaacca ttangtctt 240
 ccaagaatat actcgggaag gttccaagtt agtgcatac cctaatttgc tccggggatt 300
 attacttgac gacatgcaac cttagattgg tccgttcaag atacttggca ccttttggg 360
 cacaatcagt aagtcttgag acgcaccgga agtcaaaagga agcanggtta tgcgatccgt 420
 gaaattccgt aatgtggggg aaacaaaaag 480

<210> 17575

<211> 363

<112> DNA
 <113> Glycine max
 <400> 17575
 aacttcgggtt ttcgaatttgg agcactcttc gataaattac aacactctgt cgggcacccg 60
 ttcgaatttgg agcactcttc gataaattac aacactctgt cgggcacccg 120
 ttcgaatttgg agcactcttc gataaattac aacactctgt cgggcacccg 180
 ttcgaatttgg agcactcttc gataaattac aacactctgt cgggcacccg 240
 ttcgaatttgg agcactcttc gataaattac aacactctgt cgggcacccg 300
 ttcgaatttgg agcactcttc gataaattac aacactctgt cgggcacccg 360
 405 363

<110> 17576
 <111> 387
 <112> DNA
 <113> Glycine max
 <123> unsure at all n locations
 <400> 17576
 tctagcanat tcaaacgaaa ataactntnt actcggctgt ccgattgagt tccgtaatat 60
 atcgagacac ttgaaattga aaacgaaaac tctagcaag tgccacccg aatcactttt 120
 aaatcgctgc gaaataaatt gacatgctcc aatttgaaaa agaaagtcca tagcaaattc 180
 aaacgacaat aactttttac acggatgtcc gattgagtc ccgtaatatat cgggatgttc 240
 caaattgaaa acggaagccc ctagcanatt caaacgacaa taacttttta ctcagatgtc 300
 ctagagaggt tctaatata ttgagacact gcannatgaa aacagaagct cgaatcanat 360
 tcaaacgaca atactntttt tactcga 387

<110> 17577
 <111> 376
 <112> DNA
 <113> Glycine max
 <400> 17577
 agctttgatg caacatttgg agaggtaat gaaacaacaa gatgatgggc tccatgagag 60
 gtggatcaa atggagaata gagarcaaa tcaagaagaa aggagggaa gagggaatga 120

tgggtgttct agacaaaaac gaattgatgg tattaaactc aacattctct cattttaaagg 180
 aaagaatgat cgggaggcct acgttgagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggaac agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300
 tttgtgtgtt ttttcaagg tacaataaga gagacnaga attgaaatgt caatagttga 360

<211> 17578
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17578

agctctgagc caattcaaac gacaataact ttttactcgg atatctgatt gagtcccgta 60
 atataacgag acgctcgaaa ttgaatgttg aagctccgag ccaattcaaa cgacaataac 120
 ttttactcgg gatgtctgat tgagtcctgt aatatatcga gagctcgaa attgaatgtt 180
 gaactctetga ccaaatcaaa acgacaatag ctttttactg ggatgtctga ttgagtccca 240
 taacatatcg agacgctcga aattgaatgt tgaacctctg agccaattca aaagacaata 300
 acgttttact cggatgtctg attgagtcgc gtaatatatc gagacgctcg anattgatgt 360
 tgacctctga g 371

<210> 17579
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17579

taaacattca ctttcgagcc tctcatatat tacggttact caatcaaaac tccgagaaaa 60
 aagttattgt cggttgaatt tgcctaaagg ttcaacattc aatttcgagt gctctgatat 120
 attacgggac tcaatccgat atccgagtaa aacgttattg tcttttgaat ttgctcaag 180
 gttcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga cctccgagta 240
 aaaagttatt gtcgtttgaa ttggctcaaa ggttcaaat tcaatttcga ccgtctcgat 300
 atgttacgag attcaatcag acatccgaut aaaaagctat tgccttttga aattgctcag 360

agattcaaca ntcaatttcg aggggtctcga ta

392

<210> 17580
<211> 379
<212> DNA
<213> Glycine max

<400> 17580

caatagaccc ccaatcttta atggagaggg taaccatgc tggaaaaacc gtatgcaaat 60
tcttatcgag gcaatagatc taaatatctg ggaagccatt gaaatagggc cttatatacc 120
caccacagta gaaagagttt caatagatgg tagttcatca agtgaaagca taaccataga 180
aaaaacctga gatagatggg ctgaagagga tagaanacga gtacaataga acctataagg 240
caaaaacata ataacatctg ccttaggaat ggatgaatat ttcagagttt caaattgcac 300
gagtgctaag gaaatgtggg acactcttcg attaacacat gaacgaacta cagatgttaa 360
aagatctacg ataaatgca 379

<210> 17581
<211> 335
<212> DNA
<213> Glycine max

<400> 17581

tcaagctggt tctcggatgc tgcgatgggt agtgggagtg atgctcttgc gaacattaca 60
tcgaaaagttt atctgtctcc caagctttgg tatttgaggg ttaatgtgat agaggcacac 120
gacctgatgc caactgataa gggtagatac cctgaggtat ctgtgaagge tatectgggg 180
aatcaggcct tgaggactag aatctctcaa agcacgagta ttaatccaat gtggaatgag 240
gatctgatgt ttgtggtggc cgaacagttc gaggagccgc tgattttgag tgtggaggat 300
agaagtgggc ctaacaacga tgaaatgttg gggag 335

<210> 17582
<211> 317
<212> DNA
<213> Glycine max

<400> 17582

tttcattgat gctttgcaga ccaagccctc cttagcgaag ctacggactt ttttgagatc 60

ctattgatcc cccatgtgga aacattactc gatccattcg ttgggggatg aaagggtgat 120
 gctacttttc ctggacatg atagcgctgg acgacatttg agagatgato gtabacaaat 180
 ggttacctgc atgactaat ccagagctta ggcctccac acctagaaga tatgtctctc 240
 atgagacata gtcacat 317

<210> 17583
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17583

tggcattcta gcttatgcac tcttatactc atgtcaacct catcttcaat caaatctccc 60
 ctttaaatat ttggtattag atagttcagc catctcaatc taagactctt ggggcattcg 120
 ctcaacctta taagtatacc agacgcatat taatgtttat tatttattac aacttatgag 180
 gatatatgtc atagctatta tatatatata tatatatata tatatatcat tggagatcac 240
 aagcatatcc cagataacga aaagagaaca tatacaaata taaacacatg catatattaa 300
 tattatgggt ctgctaatc ataatatcta ttgtataaat gatngaaaag tat 353

<210> 17584
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17584

agcttctgtg cctgatgctg agaaagatgt tccaacatct tccacccga atgtttctgt 60
 gcttgatgtt gagaaagatg tccaacatc ttccggccca aatgctgaag ccttcccttc 120
 acccagttaa gaggaatcaa cagaagaaga ggcacagcc tcaaaggaga ctctgcacc 180
 acgggcacca gaacctgttc caggtgacct cattgacctg gaagaagtag aatctgatga 240
 agaaccatt gccaacaggt tggcacttg cattggcgaa agacttcaa acagatagga 300
 aaaaacccct cttaagaggt ctggaagaat caagactatg cccacaaaga acagactcc 360
 aatcaactct gccacagca gaagaagcaa gg 392

<210> 17585
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17585
 17585

caacggatag atcattcttt ataagtgcct aagtgggaatt agagtatcgt atgtataatg 60
 ttttataaat actctgtgat tatacttcca aatattcaga actctgcttg gttatgatta 120
 ttagggcaagc aaaggatggt gttaaaggca taaagaagcg gatttggagt aaaaattcaa 180
 aagttcaact tcttgcacta actgtaagca aaatagtctt gggatataac cttttttctc 240
 tttaaactct gatgtcagta ttgctctaga ttcttttggg ctcaagcatg tttgctgtaa 300
 ttgcattttt caaatttcat ttgggctccc caaacttcc acgtttgact cgttcatttt 360
 tgaatgggtt tgttgaatga cgagatgtt ta 392

<210> 17586
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 17586

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 ggtacattca gcataccttg tattataggg aatagtaagt tcgagaatgc catgctagat 120
 ttacgagctt ctgttagtgt tatgcctctg tctattggta attctctatc tctaggtccc 180
 ttgcagtcac ctgatgtgat aattcattta gctaatagaa gtgctgcta tccgtttggg 240
 ttcatagaag atgtcttagc tagagttggt gaactgatct tccctcgtga tatttatatt 300
 gtgaatatgg aagatggatt ttctcaagga tcagatccca tgattctagg cagacccttt 360
 at 362

<210> 17587
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17587

tcaagctttt tatgtttctt tggatgcta ttggaagtat aattatatag cagtggaccc 60

taacgaccaa gaaaaaattg cttttacatg cctttttggt gtcttttgctt acagaacgat 120
 gtcatttccct tgcacaccttt tagagatgca tgcctagctat ttttggtgat atggttagaaa 140
 aatgcattga ggtgttcgtat ataatttttc agtctttcgtat ccttccttca actggttgctt 240
 ggtgttcgtat ataatttttc agtctttcgtat ccttccttca actggttgctt 260
 gaaatgtcat tctatgtctc aagaaggcga tatcttgaga aa'aagatat ct'cttaccac 300
 aactgtagta gacttggc 318

<210> 17533
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 17533
 atcttgaagg taaaatagat gcttgggta acctggtaac ccaactygcc atgaataaaa 60
 aatctgcacc tctcgtcaga ctctgtggtt tatgtctctc tgcgcaccac cacacagacc 100
 ttgccccttt tctgcaacaa tctgaaccaa ttgaacagcc tgaagcttat gctgcaaaca 180
 tctacaatag acctcttcaa cctcagcagc aaaatcagcc acaacagAAC aattatgacc 240
 tctccagcaa caggtacaat cccaagtga ggaatcatcc caaccttaga tggttgaatc 300
 ctccacaaca acagcaacaa caacaacaac cttatttttag aatgttgcctg gcccagcaga 360
 catacgtt 368

<210> 17589
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17589

tgcgcgcacg gagtnttccg actatgctct tatgtggtgt aacaagcttc aaaaggagag 60
 accaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaagaa 120
 ggggtatgtg cgggttagtt actcaaggga ctggaatttc aagctccaaa aactaaccca 180
 aggaacaaag ggggttagg agtatctcaa ggaatggat gtgctcaga tccaagcaaa 240
 tatgaagaa gatgaggaag taactatccc tcatcttctt aatgtttga ct'aagatat 300

oogtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
 ocaagtggag caacaattaa aaaggaaggg agtggctaag aggagtttta ccaactt 417

<L10> 17590
 <L11> 429
 <L12> DNA
 <L13> Glycine max

<L23> unsure at all n locations

agctttcttc ttcataagct ctgcatttc agaatccaat ttttgatcca ttgcaaacag 60
 cttgtctaata gcaagaaaag cagctgtgac ccattttgga aactgtttct tctcctgtgt 120
 accaagacta gaatcccatt ggtagagtay atctgagga atttttatga aaccactctt 180
 tgaagcagct tctcgcgcaa cagcctcttc attaagaatc aatgcaagaa catgaaatag 240
 agcagcaagc atggtattat ttccgttacc agaaatcaat ccacattctt tgatccggtc 300
 acaataaaaa gtgagaacat tagatctatt ttgaccatca ttctgagagc atatcatcat 360
 gagcaagtca cggacag 377

<L10> 17591
 <L11> 429
 <L12> DNA
 <L13> Glycine max

<L23> unsure at all n locations
 <L40> 17591

gcagggaatt ggtgatttga aagcacttgg tattgttggg tatggttcaa aatttttcaa 60
 aaatagctgg catatagtaa agaaagattt tattgtctga gtgaatgaat ttttcagaaa 120
 aggatcttta ttaaaggatt ttaatactac tttgtgact ctcaattcta aatctattac 180
 tgcataagact gtcaaggatt acaggcttat tgcagtttgc tctacttttt ataaagtgat 240
 ctaaaatttt ttgaactagga ggctayggat agtgatacag gatattgttc atactagcca 300
 agcaactttt gtaccgggtc aagtcattca caatcatatt ctcccttgcaa ctgagttgat 360
 gaaggggtat accagaaaag gtgggacccc tacgtgtatg atgcanaatag acctccaaaa 420
 agcttatga 429

<L10> 17592
 <L11> 381

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17592

ctaaatttgt ggaactctga taggttttgg gtaaaccccg acacatttga ttgtaacccg 60
tgaacttttga ggaactttga taggttttgg gtaaaccccg acacatttga ttgtaacccg 120
tgacttttga ggaactttga taggttttgg gtaaaccccg acacatttga ttgtaacccg 180
atgttgttctt ggttccctctg tgaattttga ttgcgcatta atattctttct ctttggaagc 240
aaacaaacca tatcttctct tctctttaca ttcatctttct ttcaacctga caattctaat 300
ctttttttatc cacacataaa attttgacaa taaaagaata tttatacaact ttcttttgcg 360
catgatggtt gattcttata t 381

<210> 17593
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17593

atacaatact taagctttgtg tcgcactgtc tactgctgaa gctaaatata tagctgcagg 60
aagttgttgt gctcaaaagtc tctggatgaa gcaacaactt gaagaatttg gagtaaacct 120
tgatcacatt cctctaaaat gtgacaacac aagtgcgac acactaaaaa aaaaccttgt 180
catgcattct aggaactaaac acatagagat aaggcattat tttcttagaa atcatgtgtt 240
aaaagggtgat tgttgtattg agttcattga tagtgagcat caactagcag atattttcac 300
taaacctctt gctagagata ggttcttttt cattagaaat gaactaggca tattagatgc 360
atctagcata gaatgatatt ttgtttgcac agtgtgtgtg attgacattg ctactcatat 420
aatttctttt tgttttagtt gtgtcacaag 450

<210> 17594
<211> 386
<212> DNA
<213> Glycine max

<400> 17594

agctaattgt taactatgta tgacaaaact gcattactgt tgttcaagac atacaagtga 60

gcttgtaaca	aattttttac	acttggagtg	atcacctgca	gtccttttga	acctttacca	120
cacatttgt	cataatgcg	agaactcatga	agcccaacag	gttagtcctt	ctctaagtat	180
tctgaacaaa	attccaatgg	ttctttctgca	atgtacctct	caacaataga	tgctttctaga	240
ctctgctgat	aaataggacc	acuaattitg	atttctctga	ccagatgcac	aatcaagtga	300
ctctcctatc	caacccaaaa	agggggg				360

attatagatt	ttttatttat	tgaggatcat	aaaaagttta	agtcattgtat	gagagacata	60
acaacttcct	tcttgaacaa	aagttgagag	aggaaatggt	gataaaaactc	ttttcattaa	120
gaagtcctct	cataacattt	tacttgtgca	agttttatatg	gatgacatca	tttttggttc	180
cactaacaaa	tctctttgtg	aagattttgt	gcacaagatg	tagggggagt	ttgaaatggt	240
aatgatgtgg	gagttaaatt	actttcttgg	tctccaagtg	aagctagtgg	accatggaac	300
attctcttat	gaagtaaaat	actacaagga	acttttcana	cagtttgaga	tggaacatag	360
caaggaggct	acaactcata	tagctactaa	ttgctacct			399

agcttctataga	ttttcgatat	gaaaaaatgt	agtttctatgt	tctcttccaat	taacgcataa	60
tacattttac	tactttctag	tgttgcatac	caagattact	caaatatcac	cttaggactc	120
ccacaaaaat	ttagttagg	acaataaaaa	aataaaactta	agcatacatg	ataaaattga	180
atataactat	tttgcacaaa	taagtcttat	gatgatagta	ggatgtcatt	gacatataat	240
acaaaaataa	taaaattact	ctcatgaaac	ttttaattaca	cacaatcacc	aaccaaattt	300

atctcaacac cataagagat aatctagatg aatttttaat accatagacg agagacttgt 360
 tttaaagcata aatgaattt 379

<210> 17597
 <211> ***
 <212> DNA

<223> unsure at all n locations
 <400> 17597

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 agatgctgaa taaaggctca gatacgttgg atgaggtgct acagcttggg aagaatgttg 120
 gaaaccagag aggacttggg tttaatctta agtctgctgg cagaacaacc atgacagaat 180
 ttgttcttgc caaaaacagc actggagcca cgatgtcaca acatcgggtct cgacatcatg 240
 gaacgcagca gaaaaggagc aaaagaaaga agtggaggtg tcaactactgt ggcaggtatg 300
 gtacacataaa gcccttttgc tatcatttac atggccatcc acatcatgga actcanagta 360
 gcagcagtggt aaggaagatg atgtgggt 388

<210> 17598
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17598

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 cttagcttttaa attttctctaa gtttctcttt tcatgtttta atacaaaaca cttagcaacca 120
 aaaaatgaa gatgcagagat gtttgggttc ctaccattga acaattcata tgaagttttc 180
 ttttaagatgg gtcttattaa agccctattc atgatataac atgcagttatt aacggcttca 240
 gcccgaaaat attttggag aggagtatca ttcaataagg ttctagcaat ttcttccaaa 300
 gacctatttg tcttttcaat aactccattt tgttgagggg ttcttgggtgc ataaaagata 360
 ttttcaatgc catgcttatt acaaaaataaa tcaaatctct tattttcaaa ctacccccca 420
 tcatcactcc caatagatat aat 443

<210> 17599

<J11> 385
 <J12> DNA
 <J13> Glycine max

<400> 17599

atctttaaatt ttttggttaatt attggtatgaa agttctggttc aggtttttaaag ttctgatagaa
 120
 atgattttatatt ctatctcaaaa gctgttagatc ttcaattacaa ggattttaagg catctttcagt 180
 tttattggga aaagggggag cctgttaattg tcagcaatgt gcttgaatgt acatctgggt 240
 ttagtggga atcgcttgac atgtggcgtg cattacgtca tgtactaat accaagcatg 300
 gctaacattt ggaggagaaa abaattgatt gcttagattg gactgaggtt tgccttaattt 360
 tbaattcttt aactctattg accat 385

<J10> 17600
 <J11> 420
 <J12> DNA
 <J13> Glycine max

<223> unsure at all n locations

<400> 17600

ttctactttt gcagggcagg acactatgnt cagnanngtc gtgctcggac aaagatatta 60
 ttgagttaggt accttgattg gcaagcacgc gcaagggagg aagtctcaca agttgttggc 120
 aaacaaaaac cgacttttga tggactgaat caattaaaga atgtaagttt gtattataaa 180
 cttgtttattg aatagcatgt tcattggtatt tactatgaat atttttgcaa caggttacta 240
 ttatttttga ttgaggttctt agattatacc ctccaggagt tgggtgttctt cgaaaagtta 300
 tcaaaagatgt gaaacttgga aacctatcat ttcttgatgg agtggagatt ttcatatcaa 360
 caattctggt tcacctgat agtgagctct ggggtgatga tgcctaaggag ttcaaacctg 420

<J10> 17601
 <J11> 413
 <J12> DNA
 <J13> Glycine max

<400> 17601

gcttaacatt gactgaatct agttctttat ttcttagtca aaatattctc tgggtgatca 60
 ttggaaactaa tgaactcaat gacaattctc ttggacaata gttctctccg aatgaaatga 120

caatcaatct ctatgtgttt agttctctca tgaaaaacaa gatttgaagc aatgtgaaga 180
 gtagcctgat taccacaata taacttcaatt tgtccaattt cacaaaaatct caactcttgg 240
 agaagtttgt taaccacacat aagctcacat gtaaccatag ccatagatcg atattcagct 300
 caatcaaga cacaataatt tgatgttgtt ccccatcca tgggacagtc agt 410

<210> 17602
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17602
 agcttcaaca tccaattttg agcgtctcga tatatgaaga gactcaatca gacatccgag 60
 taaaaagtta ttttcgtttt aattggctca gaggttcaac attcaatttc gagcgtctcg 120
 ctatattaag ggactcaatc taacatccga gtaaaaagtt attgtcgttt gaattggctc 180
 agggcttcaa cattcaattt tgagcgtctc gatatatgac gagactcaat cagacatccg 240
 cgtaaaaagt tattgtcgtt tgaattggct cagaggttaa acattcaatt tcgagcgtct 300
 cgatatgtta cgggaactca tcagacgtcc gagtaaaaag ctattgtcgt ttgaatttgc 360
 tcagagattc aacat 375

<210> 17603
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17603
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 taactggatg tctgattgtg tcccttcata tatcgagaca ctcgaaattg aatgttgaag 180
 ctctgagcca attcaaacga caataaattt ttaaccagat gtctgattga gtcccgtaat 240
 atatcgagac tctcgaaatt gaatgttgaa cctctgagcc aattcaaacg acaataactn 300
 ttaactogga tctctgattg agtcccataa catatcgaga cgttcgaaat tgaatgttga 360

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398

<210> 17604
<211> 385
<212> DNA
<213> Glycine max

<400> 17604

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atgtccactt tgggtccagag gagttcgctt agttcttgat caagatccaa acataacttg 180
ggagaatcat gtcaacaccg agtgcgaccc atogaattac gagaaagtca cacagaagaa 240
aaaatgcctt gtctctgaat gcagagagat attagtattc tcagacacaa ttaagtgcac 300
ggaactgcac gtagagcatt gtttaaagca tcggtttgga cctgacata aatgtctctg 360
tcccatatcat gtggaatcaa gtttt 385

<210> 17605
<211> 415
<212> DNA
<213> Glycine max

<400> 17605

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ttgggttcag caggggtcat gtctccaagg gctccaccac tggcagcctc tatcatactt 180
ttgtccatgt tactgagtc ttcataaaaa tattatagaa gaagctgtct cgaaatctga 240
tggtgagggc aactggcaca tagtttttta aatctctctt agtattcata taggctctct 300
ccactgagtt gtctaatacc tgaaatatcc tttttgatgg ttgtggtctt ggaagcacgg 360
aaatgttttt tctaaagagtc ctctcttgag gtcactctaa ctctgtatgg acctt 415

<210> 17606
<211> 389
<212> DNA
<213> Glycine max

<400> 17606

[illegible]

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caaaaaactta	ttgttgtatg	aatttggctta	aagcttaaac	attcaacttt	gagcgtctctg	120
atatattaca	ggactcaatc	ctacatccga	gtaaaaagtt	attgcgcgtt	gaatttggctc	180
agaggttcaa	aattcaattg	cgagcgtctc	gatatatttc	gggactcaat	catacatccg	240
agtaaaaagt	tattgcgcgtt	tgaattggct	cataggttca	acattcaatt	tgcagcgtct	300
cgatatatgt	ggggtctcga	tcgcacat				328

tttetaacgat	aataaactttn	tactcgggatg	tccgatttgag	tctcgttaata	tatcgacang	60
ctcgaaaattg	aatgttgaag	ctctaagcct	attcaaacaa	caataacgtt	ttactcggaa	120
gtccgattca	gtgacgtaat	atctcgggac	gcctcgaaatt	gaatgttgaa	cctctcagcc	180
aaetcagacg	acaataaact	ttactcggg	tgctcgtatg	agtcctcgtat	tatctcagaa	240
cctctcaaat	tgaattctta	acctctcagc	caattcaaac	gacaataaatt	tttactcggg	300

atgtctgatt gagtccata atatctgag acgcttgaat tgaatgttga acctctgagc 360
 caagtcaagg agaataactt tttacttga tgccga 397

<210> 17609

<211> 393

<212> DNA

<213> Glycine max

<400> 17609

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 aatgatgggt acaggggttg aaccagaagc ggaagttctt tttggtgagg tagccatgga 120
 aaagcagagc gtttggaatg atttcgtaaa tctcagaagg ctattgggaa atgctggtat 180
 aaacacgaat gccaaagcaga tataaatttg aatgaggaat gttagagggtc gtgtgaagca 240
 acggctogaat tttccttggc tcagtagtga acgtgctatt aatgttaagt gattcgtttg 300
 ggcacgttca gattgctgta gttgctataa ttcctctagc acacaaatgc ccagcttgcc 360
 cctcatgttt tcatac 376

<210> 17610

<211> 393

<212> DNA

<213> Glycine max

<400> 17610

agctctggat caagtgtacc tttggtgcaa tactgtactg tcctttgtgc tcttgaggag 60
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 aaaaccttcc cattcccaag ctccacttgt gttggaaaagc ttatgtctgt gttagctaga 180
 gcaacagtea tgatccatgg agcaacattt ccagcagttg aactagaggg gcctgaattg 240
 cctgctgagc aagaaacaaa aactccttta tgcgttgctc cgaacgaggc tatggcgatg 300
 ctgtcattgt aataaggtct tgcaatgcca cctaattgaga gtgacaacac atcaacacca 360
 tcagcaacag ctgcatcgat agcagccaat atg 393

<210> 17611

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 17611

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...
aaatataat ttttattgat gatttgatgt tattagagaa caagagttat attttatnaa   30
aggtagaatt ttttttatto gagaacaaca caataaatga aaatatgttg atcaactaaat  360
aaacagaaaa taaccanaa tgacttatat ttccggtttta tttttttaac ttattaactc  420
...
acc                                     483
  
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<210> 17612
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17612

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atatatcaag acgctcgaag ttgaatgttg aacctatgag ccaattcaaa cgacaataac  120
tatttaatcg gatgtctgat tgagtcctcg aatatatcga gagctcgaag attgaatgtt  180
gaagcttttag gcaaattcaa acgacaataa ctttatactc ggatgtctaa ttgagtcctg  240
taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca aacgacaata  300
acttgttact cggangtctg attgagtcct ataatatatc gagacgctcg anattgaatg  360
ttgaacctct gaacca                                     376
  
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<210> 17613
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17613

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ttctctatgt gtacccaacc ctatcacctt gtttcaagca cgaatttttt ttgtcttttg   60
ttggtttgct ttgcatactt cgaatttttt ttttcaattt gacattttaa ttgtctatgc  120
  
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tactttcttca tatactcagc tttaacctga gcctccttat gcttaatcat agaatgttc 130
 ggcattatct tataatcaag aggagtcaaa tgcattgatg catacaactat ctcaaatggc 240
 gaacaattaa ttgtgctatg gacagccga ttatatcaaa ctcaacatga ggcaaacaaag 300
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<210> 17614
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17614
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 ctaacaaggg tgccttcaat gataagcatt tgccttcaaga ataattcaag attgcttcaa 180
 caaacaaaagc cttgtttcaa gattcactaa agaccaagcc ttgccttaaa acaaagtgtc 240
 ttcaagacat gcaaggctct ggtaatcgat taccaggaag tgtaatcgat taccagaaga 300
 cagggttgag aaatagctgt tgaaaaaggt tttgaatttg aattttcaac atgtaatgga 360
 ttaccatatg ttgtaatcg attaccagca aag 393

<210> 17615
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17615

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 acaaaaaaaaa gtcttatta caaagacagc tctaattgct ccgaaatata aggtctaaac 180
 cctatactac tagaatggcc aaaatacaag gcttagacga aggaaaaacc tattcttaata 240
 tttaaaaaga taagggggct catactttagc ccatgggctc gaaatctacc ctaaggctca 300
 tgagaacctt andgccttc ctctgacttc tagcccaate tacttggagt ctcttagcca 360
 atgccttacc ggggtaggat tgcctcaagt agc 393

<210> 17616
 <211> 420
 <212> DNA
 <213> Glycine max

ctctccaca aacgaatcaca aatgaatttt gtagctcttca aaaccttagct ccagcttcc 60
 ctcccccata ccaactatcc agcttgccgtt caacacgaat ggctctccca atattacagg 120
 gatggttagta ccttcggaga tatccattac cacaaagtct gtcgggaaga taaaatgttt 180
 tactctgaac aaaacatctt caattactcc atatggcttg gtaatggagt agtcagctaa 240
 tctgaaagtc attcagagtgg gcattatttc caactctccc aatctctctg acatgtagag 300
 tgacatcaaa ttgatactga ctcccaggtc aataagagct tttcccacat tgactctctc 360
 aattgaacaa ggaatagtta cactctgagg attatttatgc ttgggtggaa ggatcttcta 420

<210> 17617
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17617

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 agaccccaag tagaatgggc caaagatgca agagaaggcc ctagggttct tatgagcctt 120
 agggtagatt ttgggcccac gggctaagta cgagcccact tatctttgta aatattagat 180
 taaggtttca ctatttttgg gccttgtatt tagggctcca taatgtaggt agggtaacct 240
 agaaatatag gatttttcag ccttgttatt ttagggcacc tagactagtt tttgtattag 300
 aggtagtttt gtaatttcac atgcactaag tggatatttg atgtgtgtgg gtggaaataa 360
 atttaattga attggcagaa gcccaatcca attaaatttt agagagggag gtgagcat 418

<210> 17618
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17618

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 taattatgac ctctcaagca atagatacaa tccagggttg aggaatcata caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tatccctcca ttccagaatg ctgctgggtcc 180

 acaacaagca actgagggtc ctctgaacc tcccttagat gagctagtga gacaaatgac 240
 tatccagaat atgcaatttc agcaaaagac aagagccttc attcagagtc caacaattca 300
 gatggggcag atgaactact agat 334

<210> 17619
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17619

 ccagataata tgaagtttgt gatcttagaa cctatctcca gcttactctt tcccatatca 60
 actatcacgc ttgggggtcaa cagcaatggc ctttccaata ttacagggat ggtaatatct 120
 tccgagatat ccattaccac acagtctgtc gggaagataa catgttctac tctgaccaaa 180
 acatcttcaa ttactccata tggcttggtg atggagtagt gcgctaattc gtaagtcatt 240
 ccagtgggga ttatctctca ctttgagcat cttctgcaca tgggtgagaga catctaatag 300
 atactgactc ctaaggcaat aaaagctgtt ccccttgac ttctccatat gaacaacgag 360
 tactaagact ctgaggatta tta 383

<210> 17620
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17620

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 acatgaagtt gtcuatgat atatcagggc caagacagcc aggaaatgac atgatgttt 180
 atctaagtc attgattcaa ggcctgagaa agctgtggga ccaggggggt ttagtgtttg 240
 atgggtttca gaatgagact ttctaatcc atgcaatgct tttttgtaca attaatgact 300

ttccagcata taggaatttg agcagttaca gtgttaaggg tcatcatgca tgcccccatt 360
gtgaagaaga cataagctac a 381

<211> 17621
<212> DNA
<213> Glycine max

<400> 17621
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agatatctta agaagggggg attgaattaa gatattccaa actacttgcc ctaattaaaa 120
actattttca ctttttattc aagttatgaa ttcccttaat gacaatcttc ttaaattatta 180
attcaataaa cataatttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaaacctag ttttatactg gtttggccac acccttgtgc ctactccag 300
tcccaagca acccgcttga gagttccact atcttgtaaa ttctttttac aagtgtctaa 360
acacgcaagg acaatccttc ctttgtgtgt agaattcctt ta 402

<210> 17622
<211> 404
<212> DNA
<213> Glycine max

<400> 17622
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acttggggag gctgagagat ggttgcatc attcaagggc aacagtggaa agacctggga 120
tgaagttgat gacaagtccc taaaaaata ttcccacag tctataaaaa ttttttgagt 180
gaggcattac aaagatttcg tatcttgcctg tggaaaactc ccactcatgg tttttcagag 240
cttatacagt tggacatctt cattgatggg ttacgactgc agtcaaaagca tatactcgac 300
attctctgag gaagaaaaat taagttgaaa acacctgaac aagccatgta aaccttatct 360
tacttgacac ttattaaatt gccaacagga tgcgtgctat ctta 404

<210> 17623
<211> 368
<212> DNA
<213> Glycine max

<400> 17623

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agcaattttg gatattggca aggaggaatg agtcattttc aagacaaaaa tctagatcta 120
gaaggaaaaaa tctacatagg ggtctacata ttgatgggat ttaggaggtg gatcctaaga 240
aagtaaaatg gtaaggaag aattctttc aaaaaatat ttgggtggag gatttggat 300
agccaaagct tgaagggaac agattaaaaa atatctctca acaacaatat gagagtttca 360
tcgcaaga 368

<210> 17624

<211> 363

<212> DNA

<213> Glycine max

<400> 17624

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cctcatgaat gtcattgctt aacactgttc atgtgtcctc cacttcgag tctggagccc 120
cgcgaaatgt atcgctaac actgatcgcc aattctccat tccccactat cattcggagc 180
cccatgaatg tcattgccta gcgctgttca tgtgtcctcc accttcaagt ttggagctat 240
gttccatgat tgcctaaatg tggacctca agtgcaatcc tccattctcc acttttttcg 300
gagccccatg aatgtcattg cctaccgcta ttcattgtgt ctcaccttc gagtaaggag 360
ccc 363

<210> 17625

<211> 415

<212> DNA

<213> Glycine max

<400> 17625

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aatttatgtt cgtttgaatt tgcacagagg ttcaacgttc aatttcgagc gttctaatat 120
attacgggac tcaatcagaa attcgagtaa aaagttatig ttgittgaat tggcacagag 180
cttgaacatc aaagttcgag cgtctcaata tatcagggaa ctcaatcaga catccagpta 240

aaacattatt gtgttttgaa ttggttcata ggttgaacat tcaatttoga ggtctctgat 300
 atattacggg actcaattag acatccgagt aaaaagttaa tgtcctttga attggatcag 360
 aggttatcga ttcattttgg agcgtctoga tatattacgg gactcaatca gacat 415

<211> 399
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 17626

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 ctcttgattc tcttttaact caaaatcatt agcataagga agattagtat gtccattaaa 180
 ataaacattg tttattggcg aagcgtcaag aagtgggtta aagaactgaa aaataaaaacc 240
 agctgcacaa cttagaacgt aagtggtttt tgaggtatca tctttaggta caatagtggc 300
 tgaaccaag atgacagcat cgtatagaat gctagcactt aaaagctntc cagctaanaa 360
 ctcccaaca tattttgctc tgattgcatt cttaactcg 399

<210> 17627
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17627

agctttgcat accccaagga tccattagga aattacttat gaaagagago catgagggtg 60
 ggctcatggg ccactttggg atagacaaga ccttgtctt actcaaagaa aagttttatt 120
 ggcccatat gaagaaagat gtccataagc attgcactag gtgtgtggct tgtttacaag 180
 ccaattctag ggtgatgctt catgggctat acacacctt acccatcccc tctgtacctt 240
 ggttagacat tagtatggac ttgtccttg ggttccctag aacccaaaga ggtgttagact 300
 ctatctttgt ggtgggtggat aggttttagca agatggcaca cgttatacca tgcataaag 360
 tggatgctc tccacatc tc 392

<210> 17628

<211> 470
 <212> DNA
 <213> Glycine max

 <400> 17628
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 400

<211> 17629
 <212> 214
 <213> DNA
 <213> Glycine max

 <400> 17629
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 224

<211> 17630
 <212> 384
 <213> DNA
 <213> Glycine max

 <400> 17630
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300

gttgaggggtg gaactgggta tgttgggatg aaaatattga atgcaagttt attacatggc 360
 catgaaaact atgtttttca acgt 384

<210> 17631
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 17631

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 gactgaggat aattgcacta tgtgccttct acagtaatgc tttcttctac ccattcaccac 120
 tcatcttttc aagtttgggt tctcctacaa gtgtttccac caggccctgc tgaacaagaa 180
 gagtctctat ctccaatcgc catagcccca aatcattttg cctgtgtgaat ttttcaacct 240
 catacttggc tgagcccatt tcttgaatcg aactcaaaat tgcctctatgc tcacgcgacc 300
 aatttgttgt gccaagatca gattataatt cacaaaagaa tgagtttctt gtatgaacaa 360
 gaataagcaa aatg 374

<210> 17632
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 17632

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 ccataataat gacttttggg acatagtgat gaccaaatat ttggtctgtca ctttccattg 120
 ataatcttgt agaggatgca ctggaattac tcattgttgt atataaattt attttaaaca 180
 gaaaaagaaa aaaaatatat tcaagagttt atatttttta taagtaacaa aattactaaa 240
 gaatatcttt tatctaaaaa gtatatttga atgggaattt aactgttaact gtctattttc 300
 ttttcataaa ttatatatga caatattttc catagaagtt aaagaacgac tatattatca 360
 ttatttaaat atttatcata gagaataaaa aatgtttccac ataattttca atga 414

<210> 17633
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 17633

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ttaaactgca gtgatttgtct gtagtcactt gtggcagtga cgaacaactac aagcaatatg 120
atggcaaaa tttcaatttt atcttttga cctttgttcc acctttccat tattatacca 180
ttccataat tttccataaa tttccatagt tttttttccg caattttat tttttttttt
attttttttt ttgtattcac caagtgtcca gatgttgata taccatcacc aactgaggta 300
ttgagtttgt ttgtgataga atcaacccca ccat 394

<210> 17634

<211> 381

<212> DNA

<213> Glycine max

<400> 17634

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ctgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgtttaga 180
ttaaggcgca tccatataaa agacgctcga aaatgaacaa cggtagctct cgagaaattc 240
aaatgggcat caattttcac actgagggtc gattcagggt tataatatat tgatatgtct 300
gaaattaaac atcggaagct ctcgagatat tcaaatggtc ataatttttc acatggatgt 360
ccgattcgag cgcataatat g 381

<210> 17635

<211> 403

<212> DNA

<213> Glycine max

<400> 17635

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tcaatttcca gccctccgac atattatgcg cccgaatcgg acatcgggtt taaaagtcac 120
gataattaga attctccgag agtttccgat gtttaatttc gagcgtatag atatatttta 180
accttgaata ggaacctgag gtgacaagtt atgaccattt caatttgag agagcttccg 240

ttgttcaatt tgaatatatc ctatatgtga tgcgcctaaa tgggacatcc gtatgaaaag 300
 ttatgaccat ttgaatttct caacagctgt cgttggacaa ttctgagttg ctcgatatgt 360
 gatttgcctg aattggacat gctgttgaaa agtatgacca ttt 400

<210> 17636
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17636

tcaagtttca ttttcgagcg ttctgataag tttctgtatt ctatcagaca tccgagaaaa 60
 aagggtgtgt cgtttgaatt agctcagaag ttcaacattc aatttcgagc gtctcgatat 120
 gttacgggac tcaatcagac atccgagtaa aaagtcatcg tcttttgtat ttgctcagag 180
 ctcaacattc caatttcgag cgtctcgata tattaaggagc ctcaatcaga catccgagta 240
 aaaatttatg gtctgttgta ttggtccga gcttcaacgt tcattttcga gctctcgat 300
 tagttaaggg actcaatcag acatccgaga gaaaagttat tctcggttga attagctcag 360
 acgttcaaca tcaatttcg agcgtcttga tatgttacgg gacttaatca gacattcgag 420
 taaaaagtat tctcg 435

<210> 17637
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 17637

ttcaacattc aatttcgagc gtctcggtat attttgtgtt tctattagac atccgagtaa 60
 aaagggtatt ttgtttgaat ttgctcaaaag ctccaacatt caatttcgag cgtctcata 120
 tattaaggga ctcaatcaga catccgagta aaaagttatt gtctgttgaa ttgctcaaa 180
 gcttcaacat tcaatttcga gctctcggtt atattatagg actcagtcag acatccgagt 240
 aaaaagttat tgaagtttga atttgcacag agcttcaaca tcaatttcg agcgtgtcgc 300
 tatattacgg gactatata gacatccgag taaaaattta ttgtcttttg aatttgcaca 360
 gacttcaac attcaatttc gacgtctctc atatattacg gacttcaac agacatccga 420
 gt 435

<210> 17638
 <211> 333
 <212> DNA
 <213> Glycine max

ttttgacaaa gctgaaaagt gtgtctttgt tgttgtttgt gaaacatcaa aagcatataa 60
 ctatcttaaa ttttaacaa agaatattgt gacacacagg gatcttatt ttatataaaa 120
 caacacatgg gactggaatg agcagcaacc caattcaatt attgttgaca atgaagatgt 180
 aaaagaacta cagctactcg taaacattgt ctttaacatct ccaaatgaag ctcaaatage 240
 tcttgagaca gagattttcaa caccaacaaa tgttggaaac acagatgcaa ctgacatgg 300
 caatggggcg ggtcgggtac aggtattgtc tccccaatcc cttacccoga cgcctcgaca 360
 tattccgata ccctgacccg ata 383

<210> 17639
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17639

tcataagtc atcttattat ttaattctca ggtctttctaa gataattttc aaccaaaatta 60
 attcacaaat accttgtgcc atagttttaa actcagattc agcactagat tgaaccacaa 120
 cattctgttt ttttaactctc caaattacta agtttctctca agaaagggtgc aatatccagt 180
 agtggatctc ctattagtta ctgacccctg atagtcaggc atttgtaagg ttcaaggatt 240
 gtattaacat tctctttata taaaatttct cttcttagtg ttcccttgat tgcaaaatcc 300
 tataagtgcc atgtaagtga acttctcttg gacaatgcac aaatttgcta accaaacttg 360
 tagtgaatgc agtatctggc cttgtgtgag agtcagacaa gatatttaac tccccaccaa 420
 aacattgata catctc 436

<210> 17640
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17640

tgggcattct agtccaagcg tctcgatata ttacgagact gtatcagaca tccgagtaaa 60
aaattattgt aatttgaatt tgttcagagc tccaattatc aaattcgagc gtctcgatat 120
cttcggtatt caatttcgag ggtctcgata tattgcagga ctcaatcaga catacgagta 240
aaattatt uttggtttaa ttgttcaga gcttcggaat tccatttga aggttcgat 300
atattacggg actcaatcag acatccgagt gaaaagatat tgtcgtttga aattgctcaa 360
agcttcggaa ttccatttcg agcgcttcga tatattacgg gacttaatca gacatccgag 420
taaaaagtta t 431

<210> 17641
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17641

tgacaataac tntataacg gttttcttat tgagtcccg t aatatatcga gacaatccaa 60
attgaaaacg gaagctctta taaaattcaa acgacaataa atttttactc ggatgtccga 120
cagagggcgc tatttatcgc agacgcttca aattgaaata agaagcacgt agcaaattcg 180
aacaacaata agttttcact tggatgtccg attgagtcgc gtaataaate aagacgctcg 240
aaattgagaa cagaagctct tggcaatttc aaacgacaat aactttatag togaatgtcc 300
tattgagtcg cgtaatatat cgagatgtgc canattgaan atggaagctc gtaacaaatt 360
caaacgacaa taacattata cacggatgtc cgaatgagtc ctcgatatata togagacgct 420
ctaaa 425

<210> 17642
<211> 436
<212> DNA
<213> Glycine max

<400> 17642

tccatcatat attattcgcc tcaatcggac tccgtttta ttggttnga ccatttgaat 60

caattcaaat ggtottaact ttccacatgg aggtccgatt catgcgcata atatatcgag 360
 aggttcgaaa ttgaacaatg gaagctcttg agcaatccan atggtcataa cttttcact 420
 gga 423

<211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17645

taaaaagcaa agtagtaaga tacattgtta atgaaacgta taataaagaa taatggcctc 60
 ncaaaattct aatgctgatg gttttctgtt tggttatcca acaacatttg gatccatggt 120
 ttctcaattt aaagcatttt tagaagacac tataagcctg ttgtggctta cacaggcaat 180
 ggcaggaaaa cctgtagggt tcttctctag cactagtctt caaggagggt gacaagaaga 240
 gaccccatga gttatattaa ttattactga attcttcaat attcatgatt aagggttcca 300
 tcaattaatg gttattttgt atatatccac tcaacatgag agaagtcaga tcaaaactatt 360
 agtcaactact 370

<210> 17646
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17646

actaagctcc ggagtttcca gtgccaatnc gtcttctctt ttagtccatt cttcttcttg 60
 cttcaattct tcagtggggt ttcttctgtt gtccagcacc ttgggatggt ccagagcttt 120
 gatgacagct ttccaagttc tgcctaccag tgatttgagg aaggccacca ttcttgcttt 180
 ccaatattca tagttgcttc catcgagaat aggtggcttg ttcactggtc cgccttcttt 240
 ctccatgttc atcagaattt atctccctag atctcactct gtgatttcca gtgttggctc 300
 tgataccaat tgaattcttg ataccaaggg acagatgttg tacaggatgt caadacatca 360
 cgttcagaa catccatatt aatgtgtgc gtaigaaacg attaaacaag tgaataaac 420
 acgagaattg trace 423

<210> 17647
 <211> 430
 <212> DNA
 <213> Glycine max

ttctcaactat ctttcaattc actcaattata tatagaaata tagtttaatt cctattttta 60
 tgtttttgtg aaaatcaaaa gcataatattg tgacatgcac ttgactatad atgtcatatt 120
 ttatgtcata ttttaagtgg tgcagaagac gaggaataag aatggaaggy agaaagatgg 180
 taacatttta tgetaatgat tcaaatttaa cgtgagactt aatataaaat tttaaattact 240
 tttagaatca aattgattat aatgataaa atttaggaac caaaatataa aaaagtaatt 300
 caattcgata actaaattta ggttgtgatg tcatlaagtc taaaaataa acaataaaaa 360
 atcaactttc atttagtca tggattgtca tgtattcaaa caacatttca cataaatacy 420
 aacattaacc 430

<210> 17648
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 17648
 aagaagattc ccaaagaaga tagagcttag ctacacttac ctctctaata gctaaggtea 60
 cctccttgag atgagaagct agagcttagc tatacacccc ctataataac taagctcacc 120
 cccatgaaaa atacatgaaa atacaaaaaa aaatccctac tacaagact actcaaaatg 180
 cctcgaaata caggcctaaa accctatact actagaatgg cgaaaataca aggcaccaac 240
 gatggaaaaa cctattctaa tatttataaa gataagcggg ctcatactta gcccatgggc 300
 tggaaatcaa cctaagget catgagaacc gtagggcctt cctttggatc ttgacccaa 360
 tctaattgga gtctctctac caatgccctt gcgggtagga ttgcattcagt gtctcccttc 420
 cctcttc 428

<210> 17649
 <211> 430
 <212> DNA

agtatctgag attcaacttaa aattagtgag aaaaattggt tccgttggtta gtgcttagct 120
 ctactgagct ttaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa 180
 agaaaagctgg agtctgtgca catgatgtcc aacgttatgt caaagaataa gatcgggctg 240
 gtctgataca atgtccagga catctgtccc gaaaatactg gagttgctaa aagcattgaa 300
 ctgcaaggat ccaagatgtc guatacaatg tccaggacat cctgcccagaa aatcctgag 360
 ttgctaaaag cattgaagct g 441

<210> 17652
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 17652
 ctgatgatag aggatgcacg aacagagctt gcaatctatt ttggggctcc ggactcaatg 60
 gtggagggatg gatgaacgac aatcaattcg tggggctccg aataagattt gatgatggag 120
 gatgcattgaa cagcgttagg caatcaattc atggggcacc gtactcaatg gttgaggatg 180
 catgaacgac aatcaattca aggggcttcg aataagcttt gatgatagag gatgcacgaa 240
 cagagtttgc caatcaattc gtggggctac ggactgaatg gtggagggatg catgaacgac 300
 aatcaattca tggggctgag aataagatgg tggaggatgc acaaacaaca ttatgcaatc 360
 aattcgtggg tctctagact caatggtgga ggatgcatac acgacaatca attcat 416

<210> 17653
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17653
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 aggacatgaa tgggtgcagcg ctctatctgc gatgcttgac ctgcaagaaa ttgcctatgc 120
 caagtgcatt ctctcgggac cctcggatc ttccctggca agacttgaga atctatcagt 180
 cattgtctct gatatcaact atctatcact cccagtgcga gaaacatttg cccatttgaa 240

aaatctcacc atctctacgcc ttctctgagtg cagattgact gggacatttc cacagaagat 300
 ctctcagcatt gaaacattgt ctgttattga catatcactc aaccaaaaac tcaatgggtt 360
 ctctccaaaac ttccattga gcagatcact ccagaccta naagtaagaa acacaagctn 400
 tcttgggga ttt

<210> 17654
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17654

tctattattg ttgcagtata caaatggaag ctctatctta taaaatacaa ggcattcttg 60
 gcttatatta gcagaggaca aaacagaaaa ataacagaaa aacttcata tggatttagg 120
 tcatagccca acacataggg acctcaagcc tgagaacttt ctctttgata ctgttgagga 180
 gggtyctaag gtcaaaaacta ctgattttgg gctctctgtg ttttataacc caggttttgt 240
 tctctctctg ctgattttgt tttttgtgga agatgcctgag ggagagggct tggctcgtgg 300
 ttttctgga ggtggngatt ctgatgatgt ctctgagttt tcttggcgg aggagctctg 360
 cgtgcagtc gcttggcagt ggagccaatg ccgaggacca tgcctggactt gacatactg 420
 atgaccttgt 480

<210> 17655
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17655

tgagagatct tcttcaacaa tggaaataca aatcacatcc ccaagtgcac accaatattc 60
 cacaggctat gtgacaaaaa agtccctctc tccacctgtg gagtttctta cctcaccaca 120
 actcatattt ggggaggaga ttcttcaact cagccacctt cagcaccctc tctcaatggt 180
 ggatctcctt gacctgttca attgtgtggg gtgcacaagag tatgctctg gaaagaggtt 240
 tgtttgcacg caatgtgatt ttcagctgca tcaattctgt gccttgcctc ctctgtctct 300
 caaggcacac ccttttcaat cacaacactc tgtcttcttc catccaaaac caugtaaac 360

acgtacatac atacatatat atatattcat gagtacaatt gtacaaatgt aatnttttat 420
 ttaaataatta tatta 435

<210> 17656
 <211> 419
 <212> DNA
 <213> Glycine max

<400> none at all in location
 17656

ttaattggag ttttgttttt tacagaactta gttggacatc ttttgagtat gtaagcagca 60
 gttgtagactg cttcagacca aaatgtgtta agtagtcctt tctcttgag catcgatcta 120
 gttatttcca ttaactgtggc attctttctc tcggacaactt ctttttggcg aggagaatat 180
 gagactgtaa gttgttcgta aatgccttca tcttcacaaa atctttcaaa ctgcgcgagag 240
 gttgactctn tttgttgatc acttcttagt acttttctcc gttttccact ttgattttta 300
 gcaaggggct tgaactttnt gaatactcca aagactcttg attttttctt ttagaaaata 360
 taccatgctt attctagaga agtcacatc aagagtatg aagtaccctt tgtttctat 419

<210> 17657
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 17657

agcttttgag cttttcatat ggtcatagct tttcactcgg atgtccgatt caggcgcata 60
 atatctcgag acgttcgaaa ttgaacaatg gaagctcttg agcaattcaa atgattcataa 120
 ctttttacta agatgtccga tgcaggcaca taatatatcg agacgtctgt tattgaacaa 180
 cggatagctc tcgagaaaatt caaatggta taaactttca cagggatgtc agattcaggc 240
 gnataatata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa tataaatgga 300
 cataactttt actcggatgt ccgattcagc cgcatttat atttagaagc tcg 363

<210> 17658
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17658

tccattgta aatttcgagc gtctcgatat cttatgctcc tgtttctgac ctcctgtgta 60
 aaagttarga ccatttgaat ttctcgagag ctctcgttgt tcaattttga gtgtcttgat 120
 atattatacg cctgaatcgg acctccgagt gaaacattat gaccatttaa atttctcgag 180
 gagaaaagt atgacaaat gaaattctcg agagcttccg ttgttcatt tccagctgagc 240
 cgatatctta ttggtctgaa tccagacctc cagtgaagaag ttatgacct ttgaatatct 300
 caagatcttc cattgttcaa ttctcgagcat ctcgatatgt tatggccttg aat 413

<210> 17659
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 17659
 agtttgaate tgacatcctg gtgaaaagt gtgaccatgt gaatttctca agagcttccg 60
 ttgtttaatt gcgacccat cgacatatta tgcacccgag tgggacatcc gggggaaaag 120
 tcatgatcat tccaatttcc tcaaagtttc cgatggataa ctccgagcgt atcgatatat 180
 tattaccctg gatttgacct cagtctgaaa agttatgacc atatgaattt gacgagagct 240
 gtcgatgata aatttcgaat atcactgtat gtgatgcgcc tgaattggac attcgagata 300
 aatgttatga ccattgtgaat ttttc 325

<210> 17660
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 17660
 agctttagtt ttcaattacc agcgtctcga tatattacgg gagtcaatca gacatccgaa 60
 ttgaaagtta ttgtcatttg actgttcata gagcttccgt ttccaattat gagcgtctcg 120
 atatcctacg agactcaatc ggagatccgt gtcaaaaagt attgtcgttt gaatttgcta 180
 agacctctcg ttttcaatta caagcgtctc gatataattac gagactatat cggacatccg 240
 actcaaaaagt tatttctcgt tgaatttctc tccagcttcc gttttcaatt ttgagcgtct 300
 cgatctatta cagggttcaa tgggacatcc gagttaaaaag taatt 345

<210> 17661
 <211> 352
 <212> DNA
 <213> Glycine max

atgagatgat tcttaagaga ataatcttgc aatgctttat tcttattgat cccatattat 60
 atcaagacac tctgaattga aaacggaagc tcttagaaaa atcaaatgac agtaactttt 120
 aacttgaatg tctgattgag ccttttaata tatctagaag ctggaaattt agaacagaag 180
 ctctatgata agtcaaatga cagggacttt caattctgat gtctgattga gtcccgtaat 240
 atatcgagac gctcgttaatt gaaaactgaa gatctgagcg aattcaaacg acaataactt 300
 agtgactcgga tgttcaattg cgacccttat gatagcgaga cgctcgtaat tg 352

<210> 17662
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 17662
 agtttacata tatccccat gtgataatct gaacaagaga gaattatggg aagcactaag 60
 ccagetaaga caccaagatc ctgagggatt atggtgcttc ttoggagatt ttaacagcat 120
 tagacaccag tccgagagag aaggggtggc tcacaggggt atggaagcaa acaacataac 180
 tgaatttagt gaatggctag ccgacctaga ggtagaagaa atacctagtg tggggagaag 240
 attacatgg tttaatccaa acgggactgc aaagagtaaa ctagatagaa tttttgtctc 300
 tcatgaatgg ctcaacaaat ggccaggctg cacccaattc atcttggtac ggaacttctc 360
 g 361

<210> 17663
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 17663
 accttctagg gtaaaactct caccattgct acgtgctcat gcaacaattc ttggccgtgg 60

aat

363

<310> 17666

<311> 396

<312> DNA

<313> Glycine max

<400> 17667

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gattttgcac acactctctt caaagtgaag tctgtagcct ctctccatca ttctggccaat 120
gtttagaaga ttttttttta ggctgggaac tagtaagaca tcatgaatga gtctgctaac 180
tttatctgtc tccaccatga cagtgccttt gctttttgat tccaccacac ttccatttcc 240
cagtccaact ttgaatttga cagactcacc aatgcttttg aaaatagctc catctcttggc 300
catgttgattg ctacatccac tatccaagta ccagcttctc cctttttctt ttattgagtc 360
ctgagtggca tajaacatcc attgttcttg atcatg 396

<310> 17667

<311> 415

<312> DNA

<313> Glycine max

<400> 17667

tctatagaag gtctgttctc aattgctcta ctattgtatc acctctcaat gagatagtga 60
agaagaatgt ggcattttacc tggggtgaaa aacaagagca agccttttgt ttgctcaaag 120
aaaagcttac taaggcaact gttctagctc ttctgaactt ttctaaaaat tttagcttag 180
aatgtgatgc ttctggagtg ggagttggag ctgtttttgtt gcaagggtggg caccctattg 240
cttattttag tgaaaaaact catgggtgga cctttaacta ctccacctat gataaagagc 300
ttta'gctt aataagagca ctcagaactt gggaacatta ccttgttttc aaggaatttg 360
tcatccatag tgatcatcaa tcaacttaagt tcattagagt gcatagcaag ttaaa 415

<310> 17668

<311> 354

<312> DNA

<313> Glycine max

<400> 17668

agcttgattt atactgggtc ggccacttgc ggcgcctaag ttcagtccctc aagcaaccca	60
cttgagattt tcactctct ttgtaaaact ccttttacaa agtgtgaacc acacaggggac	120
aaccttccc ttgagttcag gaatcctcta caataagaga ccacgatct cttaatccct	180
<hr/>	
caaaaattcc tatatgaata tgcaagtggg tgaccaagga attcttttga gaggataaaa	240
ctatgggcca atgaaaaactc tctttaaatc cgtgtttcca atcaccttt gatg	300

tttaaaaggag	ccataccaat	actggctggg	ttgctattgt	tgtaagtaaa	ctcaatcaat	60
gpcagacaat	ccatccagct	accttgttgc	tctataatac	acgccgaag	tagatcttcc	120
aaagtctgaa	tagttcgttc	agtctgacca	tctgtttgag	gatgataagc	tgaactaagc	180
ttcagctttg	tccccaaggc	ttcatgtaga	cttgctcaaa	atcgcgaaat	gaacctcgga	240
tccctgtctg	atacaatact	agaaggaatt	ccatgcaacc	ttactacttc	cttgatgtac	300
aactccacta	gcttctccat	tctatacttc	atattcactg	gaataaaatg	agcagatttg	360
gtgagtcgat	ctactatgac	ccacacagca	tctgtccac	gactag		406

gacattagaa	actaagetta	caagggtttt	gacatttggg	gtaggcatca	agattagacc	60
tacatccac	tatatcatga	gtcacaccag	ctttacaagg	ttacacatgc	ttttgcttaa	120
caagtccaat	aacgagcaaa	ccactggctg	cactcaaat	ataaccacca	gcaaaaccat	180
cctcttgaac	accattccca	accattggac	tgaaaagatt	cacctgtctc	acctcccaac	240
cattggaccc	ataaccgaa	ataatcgaat	tccacagcac	agcacacggt	tcaacctaac	300
tatcaaaaac	actttttccc	tccctcattc	tggcagcatt	gcataaacc	gatatcatag	360

ctgacaaaaga gaactcatcc acattcgtta caaaactcac aatggcgagca gcaattttca 420
aatcaccaca ctt 433

<210> 17672
<211> 363
<212> DNA
<213> Glycine max
<400> 17672

agcttttgaa ttttatctgt ttaagcgtcc catgttaatg cgagctaatt ctattatgcc 460
atagccatgg atcattatct ttgctaagac aacattgact attactaaa ttttgactta 120
agtctatcat gtaaacatta ttgactctaa accttatatg ctttatatto gtatcatgtc 180
catgttcaat gacacattgt tgagaacca atgataccag atagccgttg tccacacactt 240
gactaacact aagcatgttg tgottaagac ctccaactag tagatcattt tcaatggagg 300
tgaagaatt tgacctattt ttccaactcc aagaattcta ccttttctgt tgtctccata 360
cgttaccatgc cc 372

<210> 17672
<211> 363
<212> DNA
<213> Glycine max
<400> 17672

agcttcaaga ttaagatggc ctacagcaat tcttatttc cagaagggaa ttctatcaat 40
agacctccaa tctttaatgg agagggttac cactactgga aaaccogaat gcaaatTTTT 120
atcgaggcaa tagatctaaa tatctgggaa gccattgaaa tagggcctta tataccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatggcttga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
aacataataa catctgccct atgaatggat gaatatttca gagtttcaaa ttgcaagagt 360
gct 363

<210> 17673
<211> 400
<212> DNA
<213> Glycine max

<400> 17673
 tgggggccc caaggaatcc tgcattctcc ctctctctctc ttagccccc gaatgtttatt 60
 acctagagct gttcatgtgt cctccacccc caagtttggg gctatgtttc atgattgccc 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
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<210> 17674
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 17674
 agctttctcc actaagttgc ctgatgccta aaatgtcttt tctgatggaa gtggctctag 60
 atgcaaggaa taattttctc aagaacaccc tcttaaggtc atcccagctg aaaatggacc 120
 tgggagcaag gtagtataac caatcttttg ccactccctc tagagaatga ggaaaagccc 180
 ttgaaaagat atgatcttcc tggacatcag ggggtctcat ggtggaacaa acaatatgga 240
 actccttaag atgtttatga ggatcttcac ctgcaagacc atgaaaacttg ggcaacaaat 300
 gttattgctc agtcttaaga acatatggaa caccctcctc aggatattga atgcacaagc 360
 .. 362

<210> 17675
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 17675
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 atgcagggaa gaattttctc aagaacaccc tcttaaggtc atcccagctg aaaatagacc 120
 tgggagcaag gtagtataac caatcttttg ccactccctc tagagaatga ggaaaagccc 180
 ttgaaaagat atgatcttcc tggacattag ggggtctcat ggtggaacaa acaatatgga 240

actcettaag atgtttatga ggatcttcaac ctgcaagacc atgaaacttg ggcaacaaat 300
gtattagtaa aatcttgaga acatatggaa caccctcacc aggatattga atgcaca 357

<110> 17677
<111> 415

<112> DNA
<113> Glycine max

<400> 17676

aucttttgac tgaactatacc aagctctagc aaccagggac ggagaaagat ctatatatag 60
gtttgttaag ggttagagaga ggaagactag agatttggat caagtaaagt gtgttaagga 120
tgaagaaggs aaagtcttag tgcctgaaaa agatctcaag gaaaggctga aggtgtatct 180
ccacaactta tttaatgatg gatctggata tgaactctagc agtctagaca caagagaaga 240
ggaccgggaa tataagtact atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300
aagaatgagt aatggtaagg cggctggggcc agacaacata cctattgaag tgtggaaaac 360
tcttgagat 370

<110> 17677

<111> 415

<112> DNA

<113> Glycine max

<400> 17677

ccgcttttat ccctggactc ctatggagge gagcttcttc atactcatct tctccttgaa 60
gtggcgtctc ctctctctct taattataca ttccgtctgc attcatcttc caagaagcaa 120
aggaatccat tgatgaagag gatcctatgc ctacaagctc caatggagca tacatcatgt 180
ggtatcaaga gaactctcat ctaggcgatg ttcttttctg tctctatct ttttgtctcg 240
agaattctct ttaattacct gtctctcacc ttactctcca tgtatctct ccattgtctt 300
gtgggttggc gctcgtttaga gttagatcaa aacaaatcaa ccgattaaat ttatcatcta 360
cacttgctca tgcactctca tggctcctac ttttgaaac tactcttgaa tcatg 415

<110> 17678

<111> 363

<112> DNA

<113> Glycine max

<400> 17678

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ttcttcagat gtaagattta gcaatgatgc acaggtctca tgtttttttt tcagagcaac 120
gtaagattta gtaagattta gtaagattta gtaagattta gtaagattta gtaagattta
gaaaagatgc agggctaaac ataaaagcta tgaatccaat ctaccaataa atggccaaat 240
tttttaataa ggaagatttc atataaaaa tgcagatgat gattatataa aaaggtccat 300
caaaacaagg gatggaatta tcatatcaga gattctagaa taacacagat aaaataatca 360
ataaccaa 368

<410> 17679

<411> 370

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 17679

tgttgtcaag ttgtgtgcac caataccctg atgaggatgt cccatatgct cttaaaactg 60
gactgatcca ttgtgttcga aagtttcatg gctttgcagg tgaagaccgc caaaaacatc 120
taaaagaatt ccataattgc tgatccacca tgaatccctt agatgtccag gaggatcaca 180
tatttctgaa ggatttttct cattcttttag agggagtggc aaaggactgg ctatattacc 240
ttgttccaag gtccatcag agctgggatg acctcaagag agtattotta gaataaatcc 300
ttcttgettc tangaccaca accatcagaa aagatatttc aagaattagg caactcagt 360
gagatagctt 370

<410> 17680

<411> 407

<412> DNA

<413> Glycine max

<400> 17680

tgttgtctct ttgtgtgcac atttgtttga taaattttga aggagacctt ttccggagat 60
gtaataatcc atgatgacat acctgtttag taacagcatc ttatagctag ctgtatagaa 120
gaaaagggat gataaaggtt taaataaaaa ataagaatgt aaattatat ttatatata 180

acttaatgaa ataatgaatt ttatatgcag ataaaacgta ataatggtac aaottataat 240
attattaaat agataaaaata tatagtcaaa aaattctgat atatttagac atottaataa 300
tatcaataac ttattgagat cctcaatttc tctctattat ctgtttttta caccatcatal 360
taattatgaa tcttctctctc tctcagcttc tctgctcttc tctctctc

<210> 17681
<211> 170
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17631

agcttatcaa aaggcatgag aagtgggtgg aattcctaga gcaattccct tatgttatca 60
aacataaaaa gggaaaaggt aatattgtag cagatgctct ttctgggagt catgcattac 120
ttcttatgct tgaacacaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180
atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240
gacattaggt tttcttttca aagaaaacag atgagtgaat aggcaattta gtccctgaga 300
ttgtaaccac ttgcatatt agtccctgac ttanattnta attcataata gtccctaact 360
ttacataagt 370

<210> 17632
<211> 361
<212> DNA
<213> Glycine max

<400> 17632

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ctggagttgc tgcacatgat gtccaaagtt atgtcaaaga ataagatcgg gctgcacaat 120
gcacaaggca agatgaaatg tcaaatgaag aattgaagct gcaggattca ccatgtcggg 180
tacaatgtcc aggcatacct gctcgaaaat actggaattg ctaaaagcat tgaagctgca 240
ggatccacga tgtctgatac aatgtccagg acattctgcc cgagaatact ggagttgctg 300
tactatgcaa gattaaagtc aagtatgaa gctgcaggat ccacgatctc agatacgtg 360
t 361

<210> 17683
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 17683

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 ttaaaagaaa tc aataatagat aataatctga ttaattccat ctaaaagaaa ttaaaacaaat 180
 ttaaaagaaa caatgtgttg aaattagtag aaaaacctga aaattatcct gtcataaggaa 240
 aaaaatgggt ttttagaaaat aaattagatg aacatgggtat aattattaga aataaagcaa 300
 ggttagtagc aaaagggtat aatcaagaag aggyaataga ctataaagaa acatatgctc 360
 ctgttgcaag attagaagcc attagaatgc ttttggcata tgcatacata 410

<210> 17684
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17684

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 tcttaagaag ggggggttga attaagatat tacaaaactac ttccccaatt aaaattctat 120
 ttcactttct attcaagtta taaattccct taataatgaa cttcttaaatt attgattaaa 180
 atagaaccaa ttgaatatga atataaaaaca atgataaata aagaagttaa aggggaagaga 240
 aagtgcacaa ctagatttat actggttttg ccacacccct gtgcttacgt ccagtcacca 300
 agcaacccgc ttgaaagttc cactatcttg taaattccct ttacaagttc taaacacaca 360
 aggacaatcc ttcttttgtg tttagaatta caacaagaga ccttcggtct cttaatecc 419

<210> 17685
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 17685

cagcttctaa actttataca aaaatgatgc tctgatacca ctgtgtgac aagtgcacac 60

<J10> 17688
 <J11> 409
 <J12> DNA
 <J13> Glycine max

<400> 17688

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 atcaggggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 160
 gcttcaacat tcaattttga gcgtctcgat gtattacggg acttaattcag acatccgagt 240
 taaaagttat tgcgttttga atttgcctgag agcttcaaca tccaatttcg agcgtctcga 300
 tattttacgg gactcaatca cacatccgag taaaaagtta ttgctgtttg aatttgcctga 360
 gagcttcaac attcaatttc gagcgtctcg atgtattacg ggactcaat 409

<J10> 17639
 <J11> 323
 <J12> DNA
 <J13> Glycine max

<400> 17639

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 aatgaatgtg atgtcattat ggatgacccc tagtgcctcc atatcttcag agatgcaatg 120
 ctgcttcacc atgaccatgc atggcgaaac cagatatcat ggcattttac attgaaacat 180
 caggttcacat ggctgcagca agcaaagcat ctatgtctac acacttggca tacgtgtcca 240
 ccaaagaagt ctttaagaata ataattccct taattccttg cttgtctatg taagaatgga 300
 tccaattacc catttcaagt gat 323

<J10> 17690
 <J11> 433
 <J12> DNA
 <J13> Glycine max

<J23> unsure at all n locations
 <400> 17690

aaaactcagc ctctcgagaa attcaaacgg ccataactgt gcaactcggat ttgcgataca 60
 tgcacattaa atctcgagac gctcgaaatt aaacaacgga agccctcgag aaattcaaat 120

ggtcataast ttctactcgg aggtccgatt caagcatata atatatacag acgctcgaaa 180
 ttgaacaabg gaagccctcg agaaattcaa atggtcataa ctattcactc ggagggccga 240
 ttcattgcgt taacatattg agacgctcga aattgaacat cgggaagcct cgacaaattc 300

 aaattggatc atataagctc ctctcaaca taactggatc tctatctc tctcaagctc 400
 gatcgagcgt ata 433

<210> 17691
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 17691
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 atcctccgca aactgaagca tgtttacttg gacettattc ttctctacca aaaagctgtg 120
 aaagaagttt gtagagactg ctctccctcat caaacctgat aaccttcag cagccaaaac 180
 aaataaaaaa ggggccaaaag gatccctctg cctcagacct ctttgaggct taaactcctc 240
 agttggacta ccatttataa ggatggatat tgaagctgaa gaaaggcagc ctttaaccca 300
 accaatccac ctttcattga acccattct cctcaacata tagaaaataa attgccagga 360
 cacagagtea taagctttct caaagtcac ttttaagcact aaacaagatt tcttttgcct 420
 cctagcctcc tcaacaacct cactagcaat cagaac 456

<210> 17692
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 17692
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 gcttgctaca aattcgagag ccgcggtggt ttccaagttt gtggggttct attgattgca 120
 tgcattggga atggaaaaat tgcaccgttg catgactaga ctaatatcgt aaaagtgate 180
 attgcaaaac cacatcaata ctggaagtcg tgcctgctcg aggcctgacc cgaatcaaat 240
 aaacattata aatgtagatc ctatgaagtg atccatgttc gtctcccaac gagcaatgat 300

ctactcaacg ttcataacaa atagtaatat aacagtacct aattgggggg ggtgtatgct 360
 ttoggatatt aatagccatc caatttgagt tagaaaaataa ccattttacaa catgttggtc 420
 cccct 424

<210> 17693
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17693

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 tgcacctggt gcaagagctg gaggtctatg ttctttctgaa gatcaccata cagatctttg 120
 tctttctttg cagcaatttg gaatcaatga gcaacctgaa gcttatgctg caaacattta 180
 taatagcccc cttagcagca aaaccaacaa cagcaaaaata attatgatct tccaagcaat 240
 aaatacaatc caggttttaag aaatcatcca aaattgagat ggacaagtcc tccacaacaa 300
 caacagcttg tccctccttt ctagaatgct gctgggtccaa gcaagccata tgttccctct 360
 ccaatacagc aacaacaaca gtcacaacta agacaacaag caacggaggg tccctctcaa 420
 ccttcttag aagagttagt 440

<210> 17694
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17694

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 tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120
 aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgtatg 180
 taatcgatga ccttgatga aatttcagaa gttaacattg aaaagtctgt acctttccaa 240
 acataaattat gtaattgatt accaagaagg tgtaatcaat taccagtga agaatTTTTG 300
 aaaaatatct tgaagaatca cgtctcttca aaagTTTTG aaaagccacc aaggacctat 360
 aaatadgtga ctggtctacg aaaaacatta gagtntttca ttagaacctc agtgacatat 420

tatcttc

426

<210> 17695

<211> 245

<212> DNA

<213> Glycine max

<214> 17696

taataattcga acatcaaaa tattaacagc taacacagac ttccgagtcg aaagttattg 60

ctgttcgaat ctgtacagag ctctgtttct aaatttcgag cgtctcgata tatcaaggga 120

ctcaatcgga ctgacgagtg aaatgtttatt gacgtatcga atttgcctacg agcttcggct 180

tgaattact agcgtctcag tatattacgg gactcaatcg gacttcgag tgagatgtta 240

ttgtc 245

<210> 17696

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17696

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tgtacctgtc gcaagggttt gtggattgtg ctcccttgcct gaccaccata cagacctttg 120

cttttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180

caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctctc 240

cagcatcaga tacaacctg gatggaggaa tcacctaac cttagatgct cagacctca 300

gcataacaaa cagcagcctg ctcccttcctt taaaacgctt gtgccccacg ataactatac 360

at 362

<210> 17697

<211> 448

<212> DNA

<213> Glycine max

<410> 17697

tgtccattat actcaattt ctgttcctc aaattcttta taaacgctt agtcaactct 60


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ttatacccgcc tcaactacct caagaagaag ctgaggaaga agaccacaggt gaaccacott 240
cacctccacc acaacaacaa gatcaagaac tatcatcacc agagtctact ccaagacgag 300
taagatcttt ggtggacata tatgaaacct gtaacttggc catacttgaa cctggaagct 360
tcaataacac gtaaaacac taactatggc tcaagcgaat gcaagacgag

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<210>      17701
<211>      423
<212>      DNA
<213>      Glycine max

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<400>      17700

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taaatagaca gcttattaat ggaaaaaatt gtataatatg catgagacct tagaatcaat 120
ttttttataa tcattgtaca caaaaggga ataaaaattaa ttgatgtat aatacttttc 180
aattctaaaa taagtatcgt cctaattatt ttacctaaat aaagaaaaat tattagaaat 240
attagaaaga aaggtccagg aaaatgatct ctctattccc atgacaaaat gtgtttatat 300
acacatattg tattacaatc gtgatectat aattaagtta ggactaatta cactaaatat 360
agaaatgaac atatatggaa agaattggtc ttgatagcta cacaccggca gatactaaat 420
cat 423

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<210>      17701
<211>      351
<212>      DNA
<213>      Glycine max

```

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<400>      17701

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cccgctctccg aaggcctgaa aaatgtgacg aaactcgggt cccttgacgt acgtgtggaa 120
attcttgctc agcatgtggt ggaagtgtat ggggtcgcaa gtgaccaaat agtccatggt 180
ggtaaaccaa ggtccaatga actcaccagt gccaccatgt cgttgcaaca cctgagatga 240
ataatcatgu gcacgcata aattgaacag taattgtggt agcatgcga tgaacggta 300
ttctgtccaa atgggttggt gcaacatcgt ctccatgga agaaatattg a 351

```


<210> 17702
 <211> 442
 <212> DNA
 <213> Glycine max

<214> ensure at all n locations

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aaagacatt atgcaacatc attntgtaca ttcaacatta acattctatt tcttggcatt   60
ttatctcttg taattagatt tttctcccca tctctgatgg aaagattgaa atctttccatg 120
ttaaatactat agcctttttc gagtaattgt cccaaaactca aaatattgat ctccatattt 180
agacatagtg agacatttga tatgaattca tgccttccaa ctttcaaacg aattaagatc 240
ttaaagcatct atagtagaca ttgaaatga attcatgtct tccaactttc aaacgaatta 300
aaagtcttat aattatcacc aaatgaaaca ctattctaaa gcattctatag tcaagtatta 360
ttggtgaacta tggcgacgat aatcacctaa tctntttgta tgagtagatc gactaatgac 420
cactctctat aggtcatgga ta                                     442

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<210> 17703
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17703

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tatctccagc atagtcaaca tcacagtgcg ttgtgagtcg aaaatctttc cttcttttta  60
agcatagacc aaggtttataa gttccaataa gatattctaa aatgcattta ataacagata 120
aaaggaacttc ccttgggtct ttttgaaacc ttgcacataa gtaaacaacta aacatttat 180
caggccctata cgtctataagg tataacaatg atccaatcat tgcctatttat tgggttttgt 240
ccaaacttttt tagattcttc gtccaacctt aagtattctag ttggatgtat aggtgtcttc 300
atttcttttg cattgtccac gttgaacata tttagaagtt ctttcatata ctgggtgatg 360
caatctctac ccgcaggcca ttgggtagaa gactccaagt agattggcta gagat      415

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<210> 17704
 <211> 407
 <212> DNA
 <213> Glycine max

<214> ensure at all n locations

<400> 17704

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gatgataatg cccaagcctt ttgtgccaga tttctgtgtg attctctatg agagagaaaa 120
tctttctctc ttgttccat gttattagc caaactgtg tctttcatt tctttctctc
aga tttgtg ttgtttata tctttatc tttttctctc tttttctctc
ttttctctc tttttctctc tttttctctc tttttctctc tttttctctc
tgatccaac aatacatctt gtgctgtcag aactgtgat tgcacgtgc ccttttctt 360
tgattgagat ataataacca ttaccaatc tgactctggt gaatttt 407

<210> 17705

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17705

ctttttccat ggcttccat ggtggttacc tntntcttga ctcatcttct ccttgaagtg 60
gcctctctaa tcacctttcc tctactcca ttctgcttcc attgatcttc aagaagcaaa 120
ggactccatt gatgaagaag atccaaggcc tacaatctcc acatggagct acatcatgtg 180
gtatcaagag catcttcac taggtgatgt tcttttgctt cctctatctt tntcttcggt 240
taattcactt taatcttcac tttctctcc atgtatctcc tccattgtct tatggtttgg 300
tgttgtttat agtagattca aaaaaataaa tggattanat cttagatcta caattgttct 360
tgcatttcta tggttcaaat tntatagac aactcttgaa tcatgntttt gtgttgattt 420
taaggtgtat ctttttt 437

<210> 17706

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17706

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agaagaatgt ggcatttacc ttgggtgaaa aacaagagca accctttgct ttgttcaagg 120

tgtaccatct gataataggg cctgcatcat gaac

394

<210> 17709

<211> 322

<212> DNA

<213> Glycine max

<400> 17709

agcttcgtga tctctatata agattcaaca atgtctgggg gcatatggcc catttcttga 60

cccaaatcaa aacctcmeta gtcctcgacc tctcaaacaa tagcaacgaa ctctaaggga 120

aactccctgc ctggctccct tctctggcca acttcttga aatctccctc gacgcatacc 180

gcattctcggg ctctttctcg aagtcgctca caggatgatg acgctcaacc acaaccggct 240

taccgggaag atttcgggga aactggcgaa gctggacttg aaggttgggt acttctgtca 300

taatatgetg gagggtgatg ct 322

<210> 17710

<211> 395

<212> DNA

<213> Glycine max

<400> 17710

tatgcttget taaagatgtc ttgattaat taattatctt aaaatctagt gaaatactaa 60

ctaaaaaaaa acataaaatt tcgtataagt aatgtacaaa tccaaaaata attgataaac 120

aaaatcatat tgaattcaag tcgttaaagc acaaagtata tataaaaaaa gagcataata 180

ttaaaaaatg tatagattag gtcttcagtc ccatagetta caaatctatt ttaagtccaa 240

gcctataaac gaaataaaat aaaatttggg caaaataaga taagatttga tgaaatataa 300

tctggataaa ataaaatcta aattgaataa aatctggata agataagatt tgataaataa 360

aataatatta ttattattgt tagttaaaca gttat 395

<210> 17711

<211> 385

<212> DNA

<213> Glycine max

<400> 17711

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gaaaattcca gaattggccc atatgcttcc gaagatatga taaagatggg taaggatgct 120
 ggagaggagc ttctttctcg agccggacct ggtttttcca gtctttaaca atccaccaca 180
 ttaattgggc aacacaatac ttgacbaggg aggttgcacg gtcagctctt tcagttgact 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 ggaataataa gcaatccatc atgggtccat tgggtctatc taaggctatt ataaagccaa 300
 atttttttat tgtgtgtgtt atttat 360

<110> 17712
 <111> 392
 <112> DNA
 <113> Glycine max
 <23> unsure at all n locations
 <403> 17712

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 ttgatccctc cctgtatgtg attgggagaa ggacaatcag ttagttgatt atatcaaata 120
 ttgtattcaa atggcaagta tggctaaagt ttattcatca tgaagcttac caaaaagaat 180
 gogagataga caattatttt ccatgtactc atatatcagt attagctggg tgcctccac 240
 acaacatcca taaagcttaa caagattggg atgttgaagt ccagatatca gtcccatctc 300
 attcaciaac tcacgatttc cctgntaga ttttgaagaa agctgcttta ctgctattat 360
 tgtaccatct gataataggg cctgcatcat ga 392

<110> 17713
 <111> 397
 <112> DNA
 <113> Glycine max
 <400> 17713

agcttttgtg tgtgtaattc tgagtgtga tgcacagcct tcttacaagg atggggtaat 60
 tgttgtagtg actggctgct taactggaag tgacaatctg aaaaggaagt ttaactagtc 120
 ctttttccca gctccccagg acaaaggcta ctttgttttg aatgatgttt tcagatatgt 180
 taatgagtat aagtcagtg atattgagtc tgtgcctgca aacatgctg ctgatgaaac 240
 tgcctcaaca gatgcttttc tccccagcc ttgtaaatct ttacatctgc tgggtatata 300

tgatogtatt cctgttggtt ttcattttct tctctataaca ttttgottat ctttgtgtaa 360
 cttgtaagtg tgagttttga aacttttact ttgatta 397

<210> 17714

<211> 394
 <212> DNA
 <213> Glycine max

<400> 17714

tagtttcaac attcaatttc gagggtctcg atatatattcg ggactcaatc ugacatccga
 aaaaaaagtt attgtcattt gtattgtctc agagcatcaa cattcaattt cgagcgtgtc 120
 gatatattac gggactcaat cagacatccg agtaaaaaagt tattgtcgtt tgaatatgct 180
 tagagcttcc gcattctatt tcaagcgtct cgatatatta caggactcaa tcagacatcc 240
 gagtaaaaag ttattgtcgt ttgaatttgc tttagacatc aaaattctat tttagcgtgt 300
 tagatatatt atgggactca atcggacatc cgag 364

<210> 17715

<211> 390
 <212> DNA
 <213> Glycine max

<400> 17715

ttagctttga tgcaacatat ggagatggtt atgaaacaac gagatgatgc gctccatgag 60
 aggttggatc aaatggagaa tagagatcat aatgaagaag aaaggaggag aagagggaaat 120
 gatggtgttc ctagacaaaa ccgaattgat ggttttaaac tcaacattcc tccatttaaa 180
 ggaaagaatg atctggaggc ctacttggag tgggagatga aaatagagca tgttttctca 240
 tqcaacaact atgatgagga ccagaaagtg aagcttgcctg ccacggagtt ttccgactat 300
 gctcttgtgt ggttgtacaa gcttcaaaaag gagagagcat gaaatgaaga gtcctatggtt 360
 gatacatgga cggatatgaa atagatcatg 390

<210> 17716

<211> 385
 <212> DNA
 <213> Glycine max

<400> 17716

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 tataggttgg acctccata agagtatgca gtagaactt tataggtgga gctaatactg 120
 aggagcatga accaapagat ttgagggtcaa atcctcttca aaggggagtg gytgatgcaa 180
 tttctcttca tttctcttca tttctcttca tttctcttca tttctcttca tttctcttca 240
 tttctcttca tttctcttca tttctcttca tttctcttca tttctcttca tttctcttca 300
 ataggcatc ttctctccac ttactcttgt acatattaga ttaggatctc attatttttc 360
 ggccttctat ttagggtccc ataatt 395

<210> 17717
 <211> 345
 <212> DNA
 <213> Glycine max
 <23> unsure at all n locations
 <400> 17717

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 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg gatgatttct 120
 ccagattttac ctgggtcaac tttatcagag agaaatcaga cacttttgaa gtattcaaag 180
 agttgagtct aagaacttcaa agagaaaaag actgtgttat caagagaatc angagtgacc 240
 atggcagaga gnttgaaaac agcaagttta ctgaattctg cacatctgaa ggcacactc 300
 atgagttctc tgcagccatt acaccacaac aaaatggcat agttg 345

<210> 17713
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 17713

agcttgcctc tacactaaca cttttcgaaa ggggagtcac catattacca tgttcgtgct 60
 gagtgtatca tgtgttggat caagtggcct cagaataatt aagaaagggg ggttgaatta 120
 attattacta gacctttact aattaaaaat taactttctt aggtctttac tataatgtta 180
 agaaaataaa gaacagaaat agaaacttaa ccaaaaagtaa aagagataat taaagtgcac 240
 aggggaaatt aaaaactag ggaagaagaa gacaaacaca caagagtatt ataactgttc 300
 gacaaacacc cgtgcttaca tccagtcacc aagcaacctg cgttcttga gatttcttt 360

caacatttgta aaatccttta caagcaaa

388

<210> 17719

<211> 391

<212> DNA

<213> Glycine max

<214> amino acid alignment

<215> 17719

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cttctatcat atctaataat ttttacatct atgtctaat gcctttttac ttcattgtag 120
taaatctcta aagcatccat tgcctaagat atctcgggca gtaagtagac ataaccgtaa 180
tgtgaataat catcaataat ggtgataaag taccattcct ttctcgaaaga actaacatca 240
aaagatccac aaatatcagt atgcacaatt tcaagaagct gagtgcctct tgtagctcct 300
ttctttgtat gttttgcttg ttttccctta atacaaccca caaaaatatt tagatccata 360
naatctagat aaggaagaaa ttgattcttt a 391

<210> 17720

<211> 399

<212> DNA

<213> Glycine max

<400> 17720

agtttacata tttccccat gtgataatct gaacaagaga gaattatggg aagcactaag 60
ccagctaaga caccagatc ctgagggatt atggtgcttc ttcggagatt ttaacagcat 120
tagacaccag tccgagagag aaggggtggc tccaggggt atggaagcaa acaacataac 180
tgattttagt gaatggctag ccgacctaga ggtagaagaa atacctagt tggggagaag 240
attcucatgg tttaaccac accggactgc aaagagtaaa ctagatagat tttttgtctc 300
tcatcaatgg ctcaacaaat ggccaggetg caccacaattc atcttggate ggaacttctc 360
ggacatattg cccatactta tgagagctaa gaacattgg 399

<210> 17721

<211> 163

<212> DNA

<213> Glycine max

<400> 17721

ttgctttatc atctgaccac tttcagggag ctgggtgctac ctctcattga cttgatgggg 60
cttatgcattg ttgataaact tggaggaaag atgtatgccc aggcattgtgc ggatgatctt 120
ctctatcttc ccttctctca ctctctgctc ctctctctct ctctctctct 180

<401> 17722
<402> DNA
<403> Glycine max

<400> 17722

agcctatgca tccggaattc cgggatgagg acatcatggc cttggttcgag gaaaagttgg 60
acgaagatcg ggataaatgg actgtatggt ttgacggagc gtcaaacatt ctatgtcatg 120
gggttggggc agtcttgatc tctccggaca atcaatgtgt accttcaca gccaggctag 180
gattcgactg cactaacaac atggccgaat atgaagcatg tgccttagcc gtccaggcag 240
caattgaact ccatgtcaaa ctactcaagg tgtacggcga ctccagcgttg gtaatccatc 300
agctgagagg agaatgggaa actagagatc ccaagctgat acctacaaa gcctaca 357

<410> 17723
<411> 392
<412> DNA
<413> Glycine max

<400> 17723

agcttgaast atcgttatta acacgatttt ttaatcaatt gagttaatag atcaattatg 60
ctataaaaata attaatgtca ttatatataa cactaaattt tttaatgtat atttaattga 120
catataagtt tacataatat atattgtgac aattaatttt gatctaataa tttttttaca 180
tatataaatt tttattaaac ttgttaattct tatttaaaaa atatattgtt aaatcgaaat 240
taattataat aaggtcaaaa acagaaattt atttactata ataattataa aaaactataa 300
ctaaaatttat taattttttt aatctttttc taaaaatttt gagtgataca gattgacaat 360
cctgtatacgg attataaatt tatatgttta tt 392

<410> 17724
<411> 394
<412> DNA

<213> Glycine max

<400> 17724

agccttgatg ttataatcat aaagttatca tgagatgcta acaaacacact cttttgaata 60
tactctctcc acctgagaga atttattaaa agctatgaat tttttagaat ctgacttctt
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
atttattaaa aaattatttt ttcttaatttt ttctgagatta ttataatcaaa ttataatgatt 140
tcaaacatctt ttgtggatca ggtgtggctg gagaagcgtt atgttgggtc acgtcacaca 200
tttgaatggt tcaatacagc aggaagaaat gtttaagaagg ggcttattgc aagtgtcatt 360
gggtctcaag taatggattc aaatagcctc atag 394

<210> 17725

<211> 334

<212> DNA

<213> Glycine max

<400> 17725

tatcttgggt taaccaaagt cccctaattg ccgtgtcatg tggcggtcca acaaaatgtt 60
actcgatttg atgtccctgt gaataacaac ctggtcccaa ccgtgggtgaa tgtagctaag 120
ccccctgtgc acgtagacaa ggatacgaag ggtttgtccc cccccaaaag acttctccga 180
cttatctaaa acccaattgt tgagactccc gttgggcatg taatcataaa ccaacataag 240
ctcgctcccc tttctgcacc accctctcat tagaaccaag ttcttgtgct gaagcctacc 300
catgcttgaa atctctccca tgaattcccg caaccctttg ctggaatagt ggttcacgca 360
ctttaacgca atttggttat gggt 384

<210> 17726

<211> 371

<212> DNA

<213> Glycine max

<400> 17726

tagcttagag agattcccca ttgagagagg tactgttccg ttggcaacat atctcatgtc 60
aagatacacc aaatttgaga gattcccaat ctgaggagga atcttccccc ggaatccagt 120
atgaadadag ttgaggtgag tcaadgaagt catgtcccca aggaagaag gaattgacat 180

acattctctca agaaatctat tgcgcgtcaa gtccaagtaa ttcaaagtct ttaaattcage 240
 caaacaagga attatctctc caccaaaagct ccattctctgg taagcttccc aatogaagtg 300
 atagttgcga tcatataaag cagaatgtga agtggtgagc tgaagctgaa gaagatggga 360
 agtgccttct

<210> 17727
 <211> 379
 <212> DNA
 <213> Glycine max

<230> unsure at all n locations
 <400> 17727

agcttttctt cattctctgg agggagtggt gaaagatggg ttgtactacc ttgctccag 60
 gtccctttacc agctgggatg acctcaagaa ggtgttcttg gagaaattct tccctgcact 120
 taggaccatt gccatcagaa aagacatttc aagcatcagc caacttagtg gagaaagctt 180
 gtatgagtao tgggaaagat tcaagaaatt gttgtcaagc tgtctcacc accagacttc 240
 ttgacaactc gttcttcaat atttctatgg ggacttanca acatggagag gagtatgaat 300
 gatgctgcca atgggtggaac tcttggtgat atgaccactg ctgaggctag gaatttgatt 360
 gagaagatgg ctccaactc ccaacaattc agtgc 395

<210> 17728
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17728

ttgcttaago acgagtaaatt tgcacatgc ttaagcggcg tctaaggtgc atccttatag 60
 tgtatgotta agaaagttat gcaaaatgct tttttttta aaaaaatggc attccaagtg 120
 tgataaaatg aatattgggt catgatatga gtatttatat atagtatgga gtttaatttta 180
 ttctaataac atgcacttca cattcatatg acgattttta tgtggagatt gtaaaaaattc 240
 aaggagttgg atgtcttact atgcttaaca aactattgat ggattcataa gtgngatgaa 300
 tatatgaatg gtttaattat gatatgagca ttgatgaaa tatgatata atgaataat 360
 aattatattc ataagataa 379

<210> 17729
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17729

ttatatttt aaatttaatt tctcaaatga tcaaggtta aaaaatgaa acacatgac 121
 tttattata gcttaaggtt cacagaaaat tgaagcaca ttgaatttc tatttaaat 181
 ttaattgaat ttgaaatga atttgtggag scaaaatttc actaattatg attagtgaat 240
 tttactatg attcaacca ctaatccaag atcaagtcca agattctcca ctaagtgtgc 300
 ttaagtgtca ggagggcatgt aaagcatgaa ggacatgcac aaagtgtgac tatatgatgt 360
 ggcaatgggg tgtagcaagc aaatgctcac ct 392

<210> 17730
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17730

tgcataccaa atgctcacca ctactagaag agaagttttc aggttggttc atataaacct 60
 cctctcttat atcaccatta agaaaagtc tttcacatc catttggtgc aactcaaggt 120
 caaaatgagc agctcatgcc aagataatac gaagagaata tttcttagat actagacaaa 180
 aagtctctct atagtcgatt ccttctttct gagtaaatcc cttagcaata agtcttgctt 240
 tgtatctctc aaagttgctt aatgaatccc ttttggtctt aaagatccat ttacatccaa 300
 tggcctttgc ccattaggc aactctacaa ggttccaaa tttgttactc tgcattgaat 360
 tcatctcact ctccatggca ttataccata natntgacac tttacaa 408

<210> 17731
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17731

tgtttagaaa ctctactgtt ggaacttgg aaaagcaaa taaagaccat aaataatacc 60

ataagcaacc aagtgtcatt tttaate

327

<210> 17734
<211> 414
<212> DNA
<213> Glycine max

ttaaaatataa ataatatataa taattaaataa gataatttaa ctatatttaa accataaata
tataactgtt gcaaggggtt gtggcttggt ctctctgtgt gaccaccata agacactttg 120
ccctccatgt cagcaacctg tagcaattga gcagcccgaa gcttatgtgt caaatattta 180
taatatagcat cctcaacctc agcatcaaaa tcaaccacag caaaacaatt atgacctctc 240
cagcaacaga tacaacctg gatggaggaa tcaacctaat ctatagtgt ctagacctca 300
gcaacaacaa cagcagctgt ctctctctct tcaaaaatgc tcttggccca agcagacct 360
acattctctc accaatcaa caacaacaac agctccagaa acagtcaaca gttg 414

<210> 17735
<211> 237
<212> DNA
<213> Glycine max

<400> 17735
atcttgccgc caaggagttt tccgactatg ctcttggtgt gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
ggaagcggta tctgcccgtt agttactcaa gggacttgaa attcaagctc caaaaaactaa 180
cccaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgtct atgattcaag 240
caaatattga agaagatgag gaggtaacta tggctcgatt tcttaat 287

<210> 17736
<211> 343
<212> DNA
<213> Glycine max

<400> 17736
tataatataa taattagctc gaaattctac atcagttagct ctgagagaaat gcaaatggct 60
ataacttttc acccggatgt ccgattatgg cgaatcacat atcgagagcc tcaaaataga 120

acaacggaag ctcttgagaa attctaattg tcataacttt taactcggat gtcgattca 180
 ggcgattac atatacaggg gctcgaaaaa gaacaacgga agctctcgag aaattcaaat 240
 ggcataact ttccacactg atgtccgatt caggatcata atatatcaag acgctcgaaa 300
 ttttatacga gaactctgaa atctatcaaa ttttctatga att

<210> 1773
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17737

ntgatttctt ctgttcggga aacctttctt ttctcatgtg caacccaaaac caatctccgg 60
 gttcgaagac aacctttctt ctccctctgt tggcttggtt agcatagctt ttacttttcc 120
 tctcaatttg atctttgaat ctctcatgaa gcttcttcaa atagtcgagc ttgcttgag 180
 ctcttttatg cttaaaaaaa gaaacattag gcaaaagatc aagaggagtt agtgggttaa 240
 aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct ctattgtaag 300
 caaattcaac atggggtaaa caagcttccc aagtttttaa gttattcttc aaaactgtcc 360
 taagcaaaagt tcccaaagtc ctattaacaa c 391

<210> 17738
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 17738

agcttgaagg taaactagat gccttgata tcttggttaa ccaactggcc ttgaatcaga 60
 aatttgtaac tgtcgcaaga gtctgtggtt tatgctcttc tgcgaccac cctacagact 120
 tttgccttc catgcaacaa cctggagcaa ttgagttagc tgaagcttat gctgcaacaa 180
 ttacaaatag acctctcaa cctcagcagc aaaatcaatc acagctgaac aattatgacc 240
 tctcagctc cagatacaat cctggaigga ggaatcacc caatctcaga tggcttaaac 300
 ctcaacaaca acaacagcag cctgctctt tcttccaaaa tgatgctggc ccaagcagac 360
 cctacatttc tccaccaatt caacact 388

<210> 17739
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 17739

atggaaggt gaaagcttgg gaggaaagag gtaagctta gttggtggg agaatcttt 120
 gaaatttacc tgggttaact ttatcagaga gaaatcagac aactttgaag taatcaaaaga 180
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcacc aagagaatta tgagtgaacca 240
 ttgttgagag ttgaaaaaca gcaagtttac tgaattctgt acatctgaag gcatcactca 300
 ttggttctct gcagccatta caccacaaca aaatgggata gttgaaagga aaaacaggac 360
 ttggaagaa gtgtctatgg tcatgtctca tgcctaaaga attacctata atctttgggc 420
 tgaagccatg aa 432

<210> 17740
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17740

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 caattctaga actaaattgc tgggagtttg aagccatctt ctcaattaaa tttctggctt 120
 cagcaggggt catgtctcca agggctccac cattggcagc atctatcata ctctctctca 180
 tgttgctgag tcttccataa aaatattgta ggagaagctg ctttgaaatc tgggtggtgag 240
 ggcaactaga atataatttt ttaaattctct ccagttatc atataagctt tctccactga 300
 gttgtctaat gcttgaaata tctttcttga tggctcggtt cctggaagca gggaaattgt 360
 ttctaaagaa tactctcttg aggtcatccc agctcttgat ggaccttgga gcaaggtaat 420
 at 432

<210> 17741
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17745

<210>	17746
<211>	407
<212>	DNA
<213>	Glycine max

<400> 17746

tgtgctcgt tacgttttga atatgaatgt tgcatttata tttaaagacc cttaggtgct 60
tcttgatgg cttcttctctg ttccaagcct caattggagt cttgtctttt acagacttag 120
tctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt 180
tctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt 240
tctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt 300
tctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt 360
tctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt ttctgcttctt 407

<410> 17747

<411> 352

<412> DNA

<413> Glycine max

<400> 17747

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ctaccacaga gaatgagcta ttagegatag cttttgctct tgagaaattt cgcacatatt 120
tcttgggtac tctgattatt gtttatactg accatgcagc tctgaagtae ctgttgaaga 180
agctgaatc aaaacctata ttgatcaagt ggatgctatg gatccaaaag ttgattttgg 240
agatcctgta tctagagcgt tcacaaaacc tcatggctga ccacctgagt aggattgagc 300
gtgctcctga agactcacc attacggatg atttttcaga tgaccatttg ta 352

<410> 17748

<411> 321

<412> DNA

<413> Glycine max

<400> 17748

agcttaagct ccttcaactg cttatggctc ttaatatctg aagaggatac ttgaggaacc 60
ttcacgggac gaagacactg acaaaaaactt atcttctctt tcttggacaa agtatggcag 120
gctgggggca agtaaaattt cttacaatca gaccttggat gcagctgaga tgcataacc 180
atatcagcta gatcttctg agtattcaag ccactcttca tcttgccttg aatgttaagg 240
agcgtcccaa tccactgtg acaatacatt cttccatgct atgacactg tacgatgct 300

agcgccgaga tcaagccagt a

321

<210> 17749

<211> 377

<212> DNA

<213> Glycine max

tttctatcct aaattatg tagaattatc ctcatcgggt ccccaatgca ccttcaccaa 60
tggatctct tttctttca acgacttcac tcttcgggtc gagatcttct gaggttgtgc 120
tttataggty aggttatcct tcaactgtac ctctccact gcaagaatat gtgatggatc 180
cgggtgtac cgtctcagtt gagagacatg gaacacaggy tgcaaattcg ataaactcgg 240
aggtaaggcg atatgataag ctacaggccc aatctcttc aaaatctgat atggacctag 300
atattgggt gtaacttcc tagccttgag agctcttcca cactccgtta tgggagaaac 360
cttcacaaac catgttc 377

<210> 17750

<211> 260

<212> DNA

<213> Glycine max

<400> 17750

tagactcagt tcaacctacc atcctttatc tgattgttta acttaacgga ccataaaatc 60
gttggaggac cttttgaggg cgtgtgtctt agagcaaaat ggaagttggg agagttttcc 120
tgcattgat agagtccact tacaacaata tgtttcactc taccattggc atggctccct 180
atgaagattt gcatggtata aggtgtagga cactctatg ttggctagat cctgcagtaa 240
accttacctt atgacctga 260

<210> 17751

<211> 363

<212> DNA

<213> Glycine max

<400> 17751

agtctttcag caataacatg atcttttcag cttctattca agtgatcaat tctttcttc 60
caggtcatgt acatgcagt ctaaataag tccatatcag catctttcat atgcaccatc 120

aacaatttca gaatttcaca cactgtttca ttggaagaga caaatctgtc tccaacaaca 180
 aaactgaaa tctggtcttt caattcaatc cagctctctc ccgagtcact tttattttta 240
 atgctctctc tcagcttctg tcagctggca aaatcatccc agtttctctc agcggcataa 300

 360 114

<210> 17752
 <211> 377
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17752

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 gctatacgag acatcttttc aaacaaaggc aagttagcca taactcgggt gtgctttttc 120
 ttccatgcta tatgtagtaa agtcattgat cctgtcaagt ttgatgagtt ggaaaataag 180
 gcgcgaatta taactgtcca gttggagatg tattttcccc tgctctctta gacatcatga 240
 ttcacttgat tgtgcactca gtcagagaaa tcaaatgttg tggttcggct tatctacgga 300
 ggatgtaccc ggttgagcca tacatgaaga tctntaaagg gtatacaaaag aatctttatt 360
 gtctaggagc atctatt 377

<210> 17753
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17753
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 attaacaact tccgttttgc catcgggttg tgggtgacaa gtggttgaaa ataacaattt 120
 agtgcacaa tcgtccaca aagtcctcca aaaatggctt aagaacttag agtccctatc 180
 actaacaatg ctcttggca aaccatggag tctcacaatc tctttgaaaa acaaatcagc 240
 cactcgggaa gcatcaca ttttttaca tggataaaaa tgagccattt tagaaaaact 300
 atcaacaacc acaaaaaatg aatctctacc attgcttgtt ttgucaccc ccaaaaacaa 360

atccatggat aaatca

376

<210> 17754
<211> 334
<212> DNA
<213> Glycine max

atccttttca aaatcaagtt tcaaaacacat aaacgggtta ttttcaatt tagcttcaac 6
taagacctca tttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
ctgcctttca tcaattaagt gaggcagcac aagagccagc ctattagcca ggaatttggg 180
cattattttg taaacacacc ctatgagaga gatgggtcta tagtcattaa gagattgggg 240
gctattgggtt ttgggggatga gggctatgaa ggatgcatta ctccctttgg ggaatctgcc 300
attaatgaag aattcatcaa agaatatgat aaaa 334

<210> 17755
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17755

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ccgattgagt catttaataa ttcgaaacgc tcgaaattga atacagaagc totaagcaaa 120
ttcaaatgac aataactttt gactcagata ttcgattgag tcattttata atttgagacg 180
ctcaaaattg aatgcaagag ctctaccaa attcaaatga caataactct ttaactcagat 240
gtccgattga gtcccgtaat atatcttgac actcaaaatg gaaaacagaa gctctgagca 300
aattcaagcg aaagtaactt ttgactcaaa tgcctcgattg agtcatttaa taattaaaga 360
cgctcggaat tgaatataga agctgtcaca aaattcaaat gacaataact ttatac 416

<210> 17756
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17756

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 tgatatagta aataatttgt tttgtggcct tgagatgagt agtgggttga gtctccatgt 120
 attgactgat gattcgagta ccatatagaa tgtctggctt tgtggacgtc aaataacaca 180
 ttttggcctg ttttggcctg ttttggcctg ttttggcctg ttttggcctg ttttggcctg
 ttttggcctg ttttggcctg ttttggcctg ttttggcctg ttttggcctg ttttggcctg
 gaagattcaa ttttccctta gccctaccct aatacacaag tagtatgaca ttttccctta
 atc 300

<210> 17757
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17757
 tccctaagaa gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa 60
 gctcacctcc ttgaaatgag aagctagagc ttagctacac accccctata atagctaagc 120
 tcccccccat gaaaaaatcc aaaaaaaaaa ccttactaca aagactactc aaaatgcctc 180
 gaaatataag gctaaaaccc tattctacta gaatggccaa aatacaatgc ccaaatgaag 240
 gaaaaaccta ttctaataat tacaagata atcgggctca tacttagccc atgggctcga 300
 aatctacctt aaggctcatg agaacctag ggccttccct tggatctctg gcccaatata 360
 cttggagctt tctatccaat gcccttgctg gataggattg catcattatg tacatatt 418

<210> 17758
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17758
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 tgtcatcggt tttttcgctc ttgaggtgct acttaagctg ccagggtctc tccaccttgg 120
 gggtattctt ttgaaagaa tctggccttc tttttgcaca tttcttatag ttgcactcta 180
 tctgaagana ttatactgac actgcctaac gaaggcaacc actaggctcat tcccaagaat 240
 gactcgggaa ggttccaagt tagtgcacca ggttaacagct accccagtaa gactttcttg 300

gaaggaatgt atcagcaatt ccttatcttt tgtgtatgcc cccatcttcc gataatgcat 360
 ctttagatgg ttcttggggc aagtagtcc ctcgtacttg tcaaag 406

<210> 17759

<211> 395

<212> DNA

<213> Glycine max

<400> unique at all 3 locations

<210> 17759

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 ttgtgaaaaa catgaatttt gacaatgttg gcaatgaaaa cttcagccac aaccttggtta 120
 ttaaaactcaa acttcaaagg gataaagtac ccaaatttgg acaattctat aactactgta 180
 aaaaatgggtg taaatccttg tgaaggaggg aattaaacaa taaagtccat tgcctatgtct 240
 tcccatattt gttgaggaat gggaagaggg tgaacaaccc cagctgacaa aacatgatca 300
 aacttagctt gttgacatat ggcacattcc ctacaaaatt tactaatatc acttctcata 360
 ccattccaat anaattgagc accaattcta gctac 395

<210> 17760

<211> 383

<212> DNA

<213> Glycine max

<400> 17760

agcttggcat tagttaacac tgttccatta taattaaccg aagtgtcaaa cattttcatt 60
 caaatcttgt tactattact attttaagcc tcccccttgt ttccattcaa atcttgttac 120
 taaaaactat aaaaactaca aaaacaaagg tcaacatgta aatactatac aactaggcaa 180
 acaattttac ctctttttgt tcaagtatct tatccaattc tttagctctt ttatccaatt 240
 tttcttgaag ggatgagtgt tctagctcct ttgtgtcttc ttccatttca tctacaaaca 300
 aggtacatac atttaaaaaa catcaataat taggataaaa tgccaatgca caaagagaga 360
 aaaa'gaaaa ttaaggagcc caa 383

<210> 17761

<211> 373

<212> DNA

<213> Glycine max

<400> 17761

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ctctgctttt ttttttggc cagttctta tttacgttta agttttttgt agaactgtgag 120
tctgtttt ttttttggc cagttctta tttacgttta agttttttgt agaactgtgag 180
tctgtttt ttttttggc cagttctta tttacgttta agttttttgt agaactgtgag 240
tctgtttt ttttttggc cagttctta tttacgttta agttttttgt agaactgtgag 300
aggatataat tgcagctggg acaaagacaa agacagtttt cagatttgag attgagcaca 360
taggtataac atg 373

<210> 17762

<211> 340

<212> DNA

<213> Glycine max

<400> 17762

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tctgaacggt gaaattcaaa ttaaattgtg aagagtcata tcttttcata aaatgctttg 120
tgtaatcgat tacatgggtt tggtaatoga ttaccagtta caagttttga atagaaagtc 180
aagagatata actctttcaa tggttttcag ttctttctca agggtataac tcttccaatg 240
gttttcttga ccacacatga agagtcctata aaagcaagac cttgacttgc atttcaaaga 300
gaattacaac tcttacaact tttgaacat ctctttgaac 340

<210> 17763

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17763

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tgtctgtctg tctatntaa gaggtttaat ctttttaata tttttaataa aattgaaatt 120
ataatttttt taaaataaga ttgttttgga tgaggaaatc aaaaatgcatt caattgaggt 180
tatgtcttgt ttgatatttt aagcatacta actcttgatc tgattgcgaa aaattataca 240

tatotttggto ctttaaatata acattatatt aatttgggtt gtcttttttt ataaaaagttt 300
 ttctaagttg acttttgcac taattttttt acccagatat ccttagttat tctatagttc 360
 atgttatgta ctactgaaca gataaatgta taatatctca tcaactactat aaaaaagatt 420
 ttttgg

<210> 17764
 <211> 47
 <212> DNA
 <213> Glycine max

<400> 17764

actcaagctt ataaactttc tgcgatgaaa tctaacaaat aatatttttt attcattttt 60
 cttattctca tctcactttg ttttatgacc acaacacaga caaggagtga ggcatagtct 120
 taaaataatta aaataaaaga tatatggtag gtaaaagtta aatagtatgc atattcggtt 180
 aaaaataaat aataatgtag tttataatgt tagtcaagga ataaaatagt tcaattgtta 240
 agacaaaaag taggcatatg gttataataa gtatacatga ttttttttgc tatatgttcc 300
 gaatgtgaat ggtaggatg atgaactaat ttatataatt aaggggtgtg tatctttctt 360
 ttacacacaaa gagattttaa ttaaaattct ctattattta attaaattcc ttgatat 420

<210> 17765
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17765

agcttgcctt gcccttggat atatttgagg gactcatggt cactatgaat gacaaattcc 60
 ttgggataaa ggtagtgttg ccatgttttc aaagctcgta ctaaggcata caactcctta 120
 tcatnagttg aatagttaag gtaggacca ctttaacttt cactaaaata agcaattgga 180
 ttgctttctt gcatcaacac agccccaatc caaacatttg aagcatcaca ctcaatttca 240
 aaagattttt gaaagtttgg caacgaaagt atggggggcat tagttagctt ttgcttaaga 300
 acatgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcaat 360
 tcatgaaac ctctt 375

<210> 17766

<210> 17771
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <224> 17771

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 atttbaaaatt ctaataattt caaataacttc aactgaaatt cttctctctt caaatttttg 120
 tgttttgata aaaaaattaa atttgtgaga gagaaagaaa atgagtcgcg agtttgagaa 180
 agagatttcg aaaactttta tgttggaaga gaagatgaat gtttggtata aaggaaatac 240
 agaaactttn tagaaggaaa ttaaaatttc acatttttgg ttgtttaaatt tctgttttaa 300
 atttccaaaa attttaaattc ttcataaaaa atatccaaat 360

<210> 17772
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 17772

agcttcaatt tacaaccata ttgttgaagc tggttaataaa gatgaaggcg gtatgggttt 60
 tctctatgga tatggaggta caggaaaaac atacatttgg aaaacacttg caagttcaact 120
 gagagetgac aataaaaattg tcataatggt agccttttagc gccatagcgt ctctgtctatt 180
 gtcttgatgt aaaactgcat attcacaatt taaaattcca gattgagttt ttgaagactc 240
 aacttgcaag atccatcatg gaactcaatt agctgaacta ttaactcaga caagttctgat 300
 catttgggat gaagcaagca tggatcacat attcagtgat gaagcaactg atcacagtct 360
 tagaga 366

<210> 17773
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17773

agcttcaaca ttcataattt gagcgtctcg taattttacg ggactcaate agacatccga 60

gtaaaaattt attgtcgctt ggattggctc atagattcaa cattcaattt cgagcgtctc 120
gatatattac ggccctcaat cagacatcgg agtaaaaagt tattgtcggt tgaattgggt 180
cagagcttca acattcaatt tcgagcgtct cgatatatga ccggactcaa tcagacatcc 240
gattttttt tttttttt tttttttt tttttttt tttttttt tttttttt
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt

<210> 17774
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17774

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aacgagaagg tcgaaattga atgttgaagg tctgagccaa ttcaaaagac aataactttt 120
taactggatg tctgattgaa tctgttcata tatcgagacg ctcgaaattg aatgttgaac 180
ctctgagoga attcaaacga caataacttt ttactcagat gtctgatata gtctcgtaat 240
atatcgagac gctcgaaatt gaatgttgaa gctctgagca aattcaaacg acaantaact 300
tttaactcga tgtctgattg agtcccgta tacatcgaga cgtccaaaat tgaatgttga 360
agctctgagg aaattctaac gacaataact ttttactcgg at 402

<210> 17775
<211> 363
<212> DNA
<213> Glycine max
<400> 17775

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agaatagtga ggcttcaatt aaaaacctag aaactttggt aggcbaacta ccaaggcaac 120
taatagacca ttttggaggt tgattttgag aaaacacctt atgaaatcct aaggagcgtt 180
ggaagcctat taatacaaga agtgggaagg tttttgggag ttgtgttcgat gataacttgg 240
ctaaagacga tcaagtggat ggaggcaagt ttatcaaggg taagaaaaat gatagtgaga 300
gtgaagagga atccaattaa aaagatagag tgtatagaga ataagactca taatatgagg 360

gtg

363

<310> 17776
<311> 380
<312> DNA
<313> Glycine max

<400> 17776

atnttggag attttcaatg ccaatttggc ttcttttttc gtcacgttct cttttttctt 60
catttcatac gtgggtctac cttctgtgtc cagcatcttg ggatgtttcc agcctttgat 120
gacagctttc caggttctgc tcttcagtga tttagaggaag gccaccattc ttgttttcca 180
gtattcatag ttgtttccat caagaattgg tggctgtgtc actggctctc cttctttctc 240
catgttctac agattttatc tccctaaatc tcaactctgag atttcgagcg ttggctctgc 300
atccaattga aattctgata ctggggacag atgtctgtac ggatgccacg acttcacgct 360
tcataacact cagattgtat 380

<310> 17777
<311> 363
<312> DNA
<313> Glycine max

<400> 17777

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aaccgctgtg cgcagcttcc cccacatgg accttggcag gccagcactg agcaacatgc 120
accacacttt atccaatag gacctaaaca tacggtcagc acaaccatta tgcctgaggtg 180
tgccaaggac tgtcaagtgc ctttaagata tcactttccc tgcaaaacac attgaattgc 240
cttgaaaacag actacaggcc attgtcattg cttaaaaactg ataatatagc accaagttga 300
tttccaataa gaggacgcca ctctctacat ctttgaaaag cttctgactt atctttcaaa 360
acatacaa 368

<310> 17778
<311> 380
<312> DNA
<313> Glycine max

<400> 17778

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 gtggpatctc caatcacctt tctttctttt ccatccggtt gtcattgato ttaagaaga 120
 aaagggctct attgatgaag aagatccaat gttacaaga totatatgga gttacatcag 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 taaaggtatc tttgtatagt tataatttag atgtatgaa atattgtata gttatattat 240
 tcaatttggg tttgtgaaca acattatgaa ttaaaaaga aaaaatgtaa ataatataaa 300
 ttacttttga agtaagggtc 330

<210> 17779
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 17779
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 tctcccccat atcaactatg cagcttgagg tcaacatgaa tggccttccc aatattacaa 120
 ggatgtcagt atcttcagag atatccatta ccacaaagtc tgtcgggaag ataaaatggt 180
 ttaacttgac caaaacatct tcaattactc catatggcct ggtaatggag cagtaagcta 240
 attgtaaagt ccttcgagtg ggcattatct ccaactcttc caatcttctg cacatggaga 300
 gtggcatcaa attgatactg gctcccaggc caataagagc ttttcccaca ttgacttctc 360
 caattgaaca aggaatcgtt acactcccaa gatctttat 399

<210> 17780
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 17780
 atctttttacc aaagggagat ggaccatttc aagtgcctga aagaatcaac gacaacgctt 60
 acaaaagctga gctgcctcga gagtataaag ataactccac cttcaatgac ttaagaataat 120
 ctcttttttga tgcagaagga caatccgatt tgaggacaaa tctctctcaa gagggagaga 180
 atgacgatga catcttcaag agcaacgca aggatccact tgaaggactt ggaggacctt 240
 tgacaagggc tacagcaaaag aaagccaatg aagctcttca acaagcgctt ggcatactat 300

atgaatacaa gccca

315

<210> 17781

<211> 409

<212> DNA

<213> Glycine max

<400> Anal. of the 17781

17781

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taactcgaaa gtaacttcca cgaatgtcaa catcgcaatt ctcaaatctc tttygatcaa 120

acatcaaaagg attatgocaa accttaggat ctctccctat tgcacatgca tttactatga 180

tcttgattt tttctttatg aaataaacat caatagtaac atctctctga ctctcagag 240

gtaacgagcaa cgggtgcaac ggggtgtaac gtagcgtctc ctccaccacc atattcaagt 300

aagccagttt ttctaagtca atttcttcca cgtgtctgtt catcccaact acatttctca 360

gtccatcttg aagtctcttc atcacacttt gatgcctcaa gagttctga 409

<210> 17782

<211> 347

<212> DNA

<213> Glycine max

<400> 17782

tgtcttctct agataacgta gtgccacacg agcactgttc acttgggata gtccccacag 60

tgtctctcgg gtgtcttcaa atcagaaaagc acagagaact gtctctgggt gcacctattg 120

cacatataca tcttggggca gaggtctctc ttgtaatgga tctcgggcaca aatcattgac 180

ttcaaagggt ggaactcggc atgccttttg ttccatctac acccttggtg agggcacgaa 240

tatctctttg tccactatc tctgcacat aaaaacaaca cattaactct cttctctgtc 300

ttttcttcat gggatgogca aagctgcaat tgttttgact ctcccca 347

<210> 17783

<211> 362

<212> DNA

<213> Glycine max

<400> 17783

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 aacataaaaa ggggaaaggg aatgtagtgg ctgatgcact gtctaagaga catgctttac 120
 ttgctatgct tgaactataa ctgtttgggc tggagtcttt gaaagacatg tatgtgcattg 180
 atctgactt ttttggat tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
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 ct 362

<310> 17784
 <311> 329
 <312> DNA
 <313> Glycine max

<400> 17784
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 tctggagagc ttcggttggt caattttgag cgtctcgata tattatgcgc ctgaattgga 120
 ctccgtgtg attagttatg accatttgaa tttctcgaga gcttacgttg ttcaatatcg 180
 agcgtctcgg tatataatgc gctgaatct gacttccgtg tgacaagtta tgaccatttg 240
 aattctccca gagcgtccgt ttgttcatat ctactttttc tatttattat gcgcctggat 300
 tagactttcg tctgatatgc tatgacct 362

<210> 17785
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17785

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 atgtcttaca ttattttccat gataacatg caacaatgat gattaggaaa ttttatgcaa 120
 aactgggtcat gcatgcacc atgtggacac tcaagcataa agttttttatg gtcattgtac 180
 actagggtct aagattcatt tttcttattt aagtcaaccc agtgttttca aaatatgtct 240
 tttttatcaat ttatgcattc atccgagtc ctcttggtccg ttcgggaaaa ttttcacagt 300
 attcaccctt tacgtgtata cactttcttt ttttcaaaaa aactgggtat gatagtgaat 360

tcattttca

369

<210> 17786

<211> 371

<212> DNA

<213> Glycine max

<400> 17786

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tatgattaag ctaagcattc tcttatctct cttaccaaatt tataattagt tcaagttcct 120

gtatgattgc aatgtgtaag tggtccttaa tgtttaaagg tcaaaagata ttgattctct 180

cctttttctt tttctgttag ctatgttgca ccagaatatg catgcactgg aatgctgact 240

gagaagagtg atatttatag ctttgggata cttatcatgg agataatcac cggaagaagt 300

cctgttgatt atagtagacc gcaaggagag gcttagagggc ctcaccaata aaagaccata 360

gttaacattt a 371

<210> 17787

<211> 368

<212> DNA

<213> Glycine max

<400> 17787

agtttgggtca aaggtaaggc tagcttagaa aaacctctca tgaacctacg acagtaacct 60

gctaaaccaa ggaaactcct aatctcaaac actaacttat gactctccca actcatcacc 120

acctctacct tgggaaggatc tactgctatc cctcccctag atataaatg ccttatgaag 180

ctcactctct ctagccaaaa ctcatactcg tacaacttag catgtagtct gttgtgcttg 240

aggggttgca acacaacct cagaactctc tcatgttctt ccttgtctt ggaatacacc 300

aagatctcat ctatgaagac cactacaaaa ctatctagat agggatgaaa gatctattc 360

atgtagtc 368

<210> 17788

<211> 368

<212> DNA

<213> Glycine max

<400> 17788

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agctttaagc gtctttttgc taacgaagac gacgcaaaag acctaacatg goatgcaaat   60
ggaaggattt ctgtatggaat cgtctgtcat ccggetgatt gctcccagtg gaagaagatt  120
catggtttgt atccggattt cgggaatgag ccaagaaatc ttagaattcc actagccagt  180
ctgtatggaat ctgtatggaat ctgtatggaat ctgtatggaat ctgtatggaat  240
taatttata atagcttcc ttggttggtc atgaaatgaa aa atatgt ttggttggtc  300
ctgtatggtg gtccaagaca gccaggaat gacattgag ttatctaat ttgttgatt  360
gaagacct                                     368

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<210>      17739
<211>      436
<212>      DNA
<213>      Glycine max

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<220>      unsure at all n locations
<400>      17739

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taagccaaaa ctaatagtgc ctgccaaagta totgagtaat cctttntatt gctgcccaat   60
gctgttccagt ggyatctgac ataaattgac agaccttggt ggccaagaaa ctaatttcag  120
ttctggtgat ggttgcatac tgcaaagcac ccacaacaga totgtataga gtgggatcag  180
aaaaagactc atacctgat ttggttaact tgcagccacc aaccattgga gaggagatgg  240
aattagcttc atccatcttg gttttagtca acagatctct tgtatacttg gactgagtta  300
gaataagagc acattaggct gaggtctgac ttcaataccc agaaaataat ccagattacc  360
taaatccttt atagaaaact cagaattaag tntagtaacc aggatttaat gaaattagga  420
ttgttgcttg tgacag                                     436

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<210>      17790
<211>      404
<212>      DNA
<213>      Glycine max

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```

<220>      unsure at all n locations
<400>      17790

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gcttgcgact cgtatccgga gaacacatga acattgctat tcaatgaca tccaggtgct   60
ccgaacaaat gtggagtag gacatttcc ttgaggctcc tcaattacc gctcgtgaga  120
ctgactctgc cactcgagag tggaggacac attaacagcc ctagacaata gcattcatgt  180

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ggctctggaa aaggaacaga atggaggatt gccttgaggt tctctcttta ngaaatcatg 240
 gaatacaact ccaataactcg aatattggaga acacatgaac aggcctaagc aataacaatc 300
 atctggctcc ggaataaggac gataatggag gattgcttcg acgttctctt cttacgcaat 360
 ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct 420

<210> 17791
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 17791

ggggcgttat tcttaggttg aagatcaagc ttgtattagt gcaacaaacg ggcactgttt 60
 tcaatgtgac caagaacctt caacaaggat ggagcactgt tcttcataga tggcagcaag 120
 ttgctccaca tattgatgag aatctcttca ttagagttat catccaacca gggaatggca 180
 ctgttctctg caagagaaca gtaacaacct cttacaatgc tctcttctct ggtggtgcta 240
 ataagcttct ccaagtgatg aacctggtt tctctgagtt aaggttgaca agaaaggatt 300
 gagtggagac tactgggacg gaatctgtgc tatatattgc ttgctacctt gatggaacag 360
 gccacaga 367

<210> 17792
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17792

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 atcgactctt ccggcctgta gtaccacctc acacgcacct tcaacttggt cctattatcc 180
 tctctgatac tctccacgcg cgcacagtaa gggggcttcg actgtctcga gggccgcata 240
 agaacacagt ctccagctgc aaaaacccaa cttttcttta aacgataget ctgcctcttc 300
 aaaaagacat cagcctcctc atcctcctcg tgggcagcca caaaaacagg gaaagggacc 360
 gtcctttaac gagacaacgc anaaggyttg gcctctgtta cctcggacga tcttgttggt 420

tectettatg

430

<310> 17793
<311> 436
<312> DNA
<313> Glycine max

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ggcgaagaga tggctgcatt cattcaaggg caatagttaa aagacctgag atgaggttgt 120
tgagaacttt ctaaaaaaat atttcccaga gctcaaaact gcaaaagggaa aacttgcaat 180
tcttccatto cataagtttc cccatgaatc ttgagtgag gcattataaa gctatagaaa 240
actcgaactc atggtttttc agagcctatt cagctgaaca tcttcattga tgggttaagg 300
ctgtagtcaa tagcagttact cgacgcttct ataggaggaa aaattaagtt gaagacacct 360
gagagaagcca tggacttaat tgaaaatatg gctgtcagtg accatgcaat tctgcatgat 420
atagttcata ttccta 436

<310> 17794
<311> 417
<312> DNA
<313> Glycine max

<403> 17794
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agtcccgaag aagacgggoc tcacagtgat aaaaaatgag aaggaagagt tgattcctac 120
tgggttgag aacagttgga gagtctgcat tgactacagg aggctgaacc aggttaccaa 180
aaaggaccat ttcccctgc cattcattga tcagatgctt gaacgcctgg caggtaaatc 240
tcaactactgt ttccttgatg gttttctgg ttaatgcaa attactattg ctctgagga 300
tcagaaaaag accaattca cctgccctt tggcactttt gcttatagga gcatgccttt 360
cggcctgtgc aatgccctg ctacctcca ggggtgcagc attagtattt tcagtga 417

<310> 17795
<311> 352
<312> DNA
<313> Glycine max

<400> 17795

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taattatgac ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 120
atgaaatctt ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 180
atgaaatctt ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 240
atgaaatctt ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 300
atgaaatctt ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 360
atgaaatctt ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 420
atgaaatctt ctttcaagca atagatacaa tccaagttgg aggaatcacc caaatctgag 480

<410> 17796

<411> 432

<412> DNA

<413> Glycine max

<400> 17796

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tatgtatata tgattttgat gatttcaaag aacaatctaa caaggetgct tcaaatgata 120
aacatttgct tcaagaataa ttcaagattg cttcaacaaa caaagccttg tttcaagatt 180
cactaaagac caagccttgc cttaaaacaa agtgctttca agacatgcaa cgctctggta 240
atcgattacc aggaagtgtg atcgataacc agaagacagg attgagaaat agctgttgaa 300
aaaggtgaat ttaaattttc aacatgtaat cgattgccat atgtgtgtaa tcgattacca 360
gcaacagaac tttggaaatt caaattcaca agtcataacc cttcaaacta taactgtgta 420
atcgattaca ca 432

<210> 17797

<211> 406

<212> DNA

<213> Glycine max

<400> 17797

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cttctctatac atctctatgc gagaatgcag ttgtaacagc taactgtctc acgtgaagat 120
tgtctaccgc tattatctct agaatagccc tgaatctggt catctttaca actggagaga 180
agatttctgc gattgcaatt acttgtttct ggtgagaccc ttgaccaca agattcgact 240

tgggtcttct tgtacgtca gatgggtact ttagectata taccaccta gttggtcatt 300
 cttcttttcc tttgggtat ttatttaaag accacgttt attgttgatg acggatggca 350
 tgtcatctgt catcgctago ttccactoga gaatgacatt cccctg 400

<212> DNA
 <213> Glycine max

<10> 17793

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 tttctcctaat tagctctgtt gcttctttcg gggtcttcag ttttatcttt cccctacag 120
 aagcatctaa cagttgcttg gtttgtggtc tcagctatc tataaacata ttcaattgga 180
 ttggtctgga aaacctatga gtgggagttt ttcttaacaa gctctgaat ctctccaatg 240
 ctccactcag agattcatta cgaaactgat gaaatgaaga gattgcagct ttcccttcta 300
 cagttctgga ctctgggaag tattcttcta ggaacttttc aacaacttct 350

<210> 17799
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17799

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 acttcagcga ttctctgtaa atccccagat tccactccgc ttctctctta aagatgateg 120
 tcacgtcggc attgagaatc cagcttatga aacttgggag caacaggatc aagtgcctct 180
 cacatggctt caatcgactc tctctacgtt gattttatca cgagttctag gatgcaccca 240
 ctccatagag gtttgggaat gcattcacga ttatttccac aagcaaacaa tagccacagc 300
 tagtcaactt cgcactcaac tntgtctat gacacttgca ggcaactcaa taegtgaatt 360
 tctgacacag attcgagcaa ttctgattc tctagcttct gttggaagcc ggattatgct 420
 tc 422

<210> 17800
 <211> 374

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17800

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tctctcagctc tctctcagctc tctctcagctc tctctcagctc tctctcagctc
tctctcagctc tctctcagctc tctctcagctc tctctcagctc tctctcagctc
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tctctcagctc tctctcagctc tctctcagctc tctctcagctc tctctcagctc 300
gactctctcc actgagttnt ctaatacttg agataccttt cctgatggct gtggctcctgg 360
aagcaggggaa aaaa 374

<212> 17801
<213> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17801

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caacagtcac atcttttcat ttggttcttg aatggtcac aaaggcctat atatatgtga 120
cttgagacac gaatttgcta agagtttttc tgaacaacaa gtgtttatct tctcaaaaag 180
caaaatcggt ttatctctct aagaattcct tggccaatct aattgcaatt cattaaggaa 240
tcatttgagt gctcagattg taaaatctat ctcttcaaga gagattcatt cttcttctct 300
ttctaattca ctaagggatt aagagaccga ggtctcttg ttgtaaaaga attctaaaca 360
caaaggaagg atntctcttg tgtgtttaga acttgtaaaa ggaatttaca agatagtggg 420
actctcaagg 430

<212> 17802
<213> 366
<212> DNA
<213> Glycine max

<400> 17802

agcttgctc atatttctca tctagacaa acttctcatt tttaagggtt agtttagtta 60

ggggtagtgc taatttagaa aatcccttaa tgaatttctt ataataagcca gccaaaccca 120
 agaaaacttcg aaactctgtt ggagttgtca gttgttgcca ctccataaac gattccactt 180
 taggggcttc catcgcaaac cgtctcttag aaatcagtg ccccaagaaac tgcaccttct 240

 acacatctct caagtgcctt taatgtctct ccttatctct caggtacact aggatatcat 300
 caatca 360

<210> 17803
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17803

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 cccccacttg aaatttgaaa agaagatttt cgaggatttc ataaaattgt gcataaacia 120
 aggtgtcata caacttgaac ctttgcatag tgagtaagat tcagatttta ttagagtgac 180
 tgaagttctt gaactctatc tccgacatca aaccacacac aaccttttca taggtgtatt 240
 ctataaagcc cgtgcgttaa agaccatgca cgtctatccc ggtatagtga acgtctatga 300
 natntttgcc caaaatttca tatgaagcgg cccccacttt aacattcaca taggtgagtc 360
 tatcaagagt actcttgt 378

<210> 17804
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17804

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 attggataat ttcttcattt ggttttgatg aaaatccata ccacaagatt agtggggagta 120
 aaatatgatt tcttggttta tatgtagatg atattttact tgcagccaat gatgggggtc 180
 tgcacatgga ggtgaaacaa ttatctctta agaattttgg catggaggat ataggtgagc 240
 catcttacct catggacatt aagattcata catatagagc tcagggtatt ctagggttat 300

cacaggaaac ctatattaac aaaatTTtag agagattntg gatgaaagat tgTTTTaccaa 360
 jgtttgctcc ca 372

<210> 17805
 <211> 423
 <212> DNA
 <213> Glycine max

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 gaaagctggt tgtctttcat caattaaggc aggtataacc tgtctcaacc tgcctgctag 120
 aagcttagct atcactttgt acatgcagcc tatcaaggat attggtctat aatcatttag 180
 ggaatgagga tgggttaactt tggggataag agccaagaaa gaggcattgc tgcctctagg 240
 gaaacaaccc ttgacatgga actcatccac aaatctctctg gaactctggtt ttgcacact 300
 ccagaattcc ttaataaaaat tgaaattaaa accgtccggc ccagggcaact tatctccacc 360
 acaact 366

<210> 17806
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17806

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 gttgtctctt atttaacctt tcttttatta tattgttatg ttgcctattt tgtgcaacat 120
 cctcgttaac ctatcacaac aataattttt attaaaaaat tgacaatata ttaatagtga 180
 actaaaatta ttaaaatttt aaaatgtgag agatcaaatg taaatgtgta gtataatatt 240
 tgaataatca aaattacaca atcataaaat tacaagaggt tttttaaacct tattatgtat 300
 tcaaaattaa agaataatat taaaaaatgt tataattttc tatactctat tatgcacttc 360
 tctatcttta aaataaaaata taaacytaaa aaaaacaaca taatttgata cataacgtaa 420
 taa 423

<210> 17807

<211> 370
 <212> DNA
 <213> Glycine max

<400> 17307

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-
tcttgcttc gaaacaaa gattcaata gttgcattc ttatagaa atctaaaa
-
aaattcatgg gatcccccac agtttagtct ccggtcgaga cccattatc atcagccgct 240
ttgtgcaaga gttgttcga ttgagtggct cgaaacttca tatgagtcca gctatcacc 300
cgcaatccga cgggcagatt gaggtgatga acacggtggt tgagcaatat ctccagagcat 360
ttgtgcactc
370

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<210> 17303
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 17303

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gaaaacaaat tgagatgggt agatcagata gaggtgggga gtactatggt agatacacag 60
aggatggaca agcaccaggt tcatttgcca aatttcttca agaacatggg attgttgccc 120
aatadactat gcttggttct ccagatcaga atgggtgtggc agaacgaaga aatcgaacct 180
tattagacat ggtgagaagc atgaagagta atgtaaaagct tctcaattt ttgtggattg 240
atgctcttaa gacggctgca tatatattaa accgagttct aaccgaggct gtctcaaaga 300
caccttttga gttattcaag gattgaaaac caagtttgcg acatatacgc gtttggagat 360
gctc
364

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<210> 17309
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 17309

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tttcaattt gatgtttaaa gggagaagta cgtgtttgtg ggttaagact caagatccaa 60
gggatacaaa ctctataatc caaaatagtag aaagatcacc ataagtcgca acgtagagtt 120

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ccatgaagaa gattgatggg attggagtggt tcaagaagat aagtatgatt atcttcttta 180
 ttttgaagaa gatgatgaaa ttgaacaacc aatcatagag gaacatatta caccacctgc 240
 cccaccgaca ccaaggctgg atgaaacatg ttcaagttag aggacaccgc gactaaggag 300
 cctgaagag atttatgag taacatgaa ccttaaggac atttatgag atttatgag 360

<211> 17810
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17810
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 atcaaaaagg aaggtcaaaa gagtattctt tatgaaatat atcttgatat gagtcacaga 120
 actatagcgt attagcatca ctaagaacaa gaaatgacaa acaaccatac tatctatgca 180
 attaaggcaa aacaccatac tacaagtgat gtagctccat gtggagcttg caggctctga 240
 atcttcttca tcaatggagt cctttacttc ttgaagacca tggcagtgaa atggaaaagg 300
 aagaaagatg attggagatg ccacatcaag gagaagatga gtcaagaaga agctcaccac 360
 catagtaagc catggataag agcttgaatg taggagaaga atagtggagg gagagggaga 420
 g 421

<210> 17811
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 17811
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 ggtgttatct gacttcagta tcaactatcc ccagttggcc attttcacct ctgccccatg 120
 agtagacaat cccccagaa gtcaaaaacag caacatggta tgaacgggtt gatatacct 180
 taacaaaactc ttgtttgaga ttctcttcag acatgaactgc tttatccgtg tcatgtggat 240
 ttaactagtg tgcataattg caacttcca ttgcaaaaac cttycggatg ttagagagag 300
 ctacagtgca cattcttaca catgacaatt gaa 333

<210> 17812
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 17812

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 cttagatacg aagtatgatt tggtttaaga gtatgtaatt catccttcac agcttttctt 240
 aatacagttt catacttaac agcttatgca tatgtttttg gttcagaaat ttttgaaatg 300
 gctaaggtat atatttgaga tgactaggag acaaatgatg ataggacaga acagtggata 360
 aagaatataa agcagtacct gaagtagaag aaaggaacct gctgagttga gaagattgca 420
 tctagtgaat aatga 435

<210> 17813
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 17813

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 atcaatggg tatagaatat aaaaaagtat tcacaaattt tattatatta tagtagattt 120
 caaatttaaa tttatctttt tttttcttct tctcttaatt gtatattttg ttatataatt 180
 tatcgtataa gtataatttc tctcatgcaa aacaaaattt tcttacgtac actaagtttg 240
 cggagttata taatatgatt tatttaacct taaattcaat ataaattggt tatcatatat 300
 acgtcagaaa tatttattta ttatgaatgt taatactact ataatttata tatattaaaa 360
 ttattctta 369

<210> 17814
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17814

